

Question 1

Using the modified X-method of tire rotation on a front wheel drive vehicle, where should the left front wheel be placed?

- A) Right front B) Left rear
C) Right rear D) Keep it at the left front

Answer: <https://biology-forums.com/index.php?topic=399897>

Question 2

Hydroplaning can occur at speeds as low as _____.

- A) 40 mph B) 55 mph C) 45 mph D) 30 mph

Answer: <https://biology-forums.com/index.php?topic=399867>

Question 3

Technician A says that a pilot is placed into the valve guide to position the stone or cutter correctly for resurfacing the valve seat. Technician B says that he installed height should be checked and corrected with oversized valves, if needed. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398112>

Question 4

Check balls used in the valve body are constructed of _____.

- A) Steel B) Rubber C) Nylon D) All of these

Answer: <https://biology-forums.com/index.php?topic=400349>

Question 5

Voltage signals (waveforms) that do not go below zero are called _____.

- A) AC signals B) DC coupled signals C) Pulse trains D) DC signals

Answer: <https://biology-forums.com/index.php?topic=398393>

Question 6

Oil change intervals as specified by the vehicle manufacturer _____.

- A) Are maximum time and milage intervals B) Only include miles driven between oil changes
C) Are minimum time and milage intervals D) Generally only include time between oil changes

Answer: <https://biology-forums.com/index.php?topic=397927>

Question 7

Which activity does NOT allow a person to perform any work while at the shop?

- A) Job shadowing B) Part-time employment
C) Cooperative education D) Apprenticeship

Answer: <https://biology-forums.com/index.php?topic=397407>

Question 8

OBD-II equipped vehicles are required to turn on the malfunction indicator lamp if the system has detected an exhaust emission level that is _____ the FTP limit.

- A) 1.5 times or higher than B) 1.5 times less than
C) The same as D) None of these

Answer: <https://biology-forums.com/index.php?topic=399276>

Question 9

A customer complained of hard shifting, particularly into first gear and reverse. Technician A says that the blocking ring maybe worn. Technician B says that the clutch may be defective or out of adjustment. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400212>

Question 10

Reusing old coolant is generally not approved by vehicle manufacturers, with the exception of _____.

- A) General Motors B) Mercedes C) Ford D) Chrysler

Answer: <https://biology-forums.com/index.php?topic=397893>

Question 11

Which type of sensors uses a burn-off circuit?

- A) Hot wire MAF sensor B) Hot film MAF sensor
C) Vane type airflow sensor D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=399100>

Question 12

Which terminal of the data link connector does General Motors use for Class 2 communication?

- A) 4 B) 3 C) 2 D) 1

Answer: <https://biology-forums.com/index.php?topic=398533>

Question 13

A Bluetooth signal can typically travel _____.

- A) 33 feet B) 10 meters C) 10 feet D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=398791>

Question 14

Cylinder head bolts should be loosened _____.

- A) From the exhaust side first, then the intake side
B) From the middle, working toward the ends of the head
C) From the ends, working toward the middle of the head
D) Any of these

Answer: <https://biology-forums.com/index.php?topic=398058>

Question 15

Which of these describes a condition that results in more fuel being delivered?

- A) Hot intake air B) Long pulse width C) Short pulse width D) Warm engine

Answer: <https://biology-forums.com/index.php?topic=399184>

Question 16

An automotive engine that running at too high of a temperature will have which of these?

- A) Excessive oil consumption B) High thermal inefficiency
C) Poor cooling system circulation D) High oxides of carbon

Answer: <https://biology-forums.com/index.php?topic=397918>

Question 17

An oil filter should be hot drained for how long before disposing of the filter?

- A) 8 hours B) 12 hours C) 4 hours D) 30 to 60 minutes

Answer: <https://biology-forums.com/index.php?topic=397522>

Question 18

Technician A says that the response you receive for a failed test states "more preparation needed." Technician B says that test scores are available the next business day. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397479>

Question 19

A transfer case is difficult to shift (range shift). Technician A says that the shift linkage or shift fork may be worn or damaged. Technician B says that the blocking ring may be worn or damaged. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400304>

Question 20

What gasses are released from a battery when it is being charged?

- A) Hydrogen B) Nitrogen and Oxygen
C) Hydrogen and Oxygen D) Oxygen

Answer: <https://biology-forums.com/index.php?topic=398556>

Question 21

What can be used to prevent damage to vehicle components?
A) A block of wood used with jack stands B) The correct size lift pads
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397662>

Question 22

"Breakdown voltage" is the voltage at which a Zener diode will do which of these?
A) Allow reverse current to flow B) Stop the flow of reverse current
C) Stop the flow of either forward or reverse current D) Sustain damage as a result of current overload

Answer: <https://biology-forums.com/index.php?topic=398523>

Question 23

A P0118 DTC is being discussed. Technician A says that the ECT sensor could be shorted internally. Technician B says that the signal wire could be open. Who is right?
A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399050>

Question 24

Which of these terms is specified by the Society of Automotive Engineers (SAE) as the term describing an ignition system that does NOT use a distributor?
A) DI B) IGN C) EI D) ND

Answer: <https://biology-forums.com/index.php?topic=398970>

Question 25

All of the following statements are correct EXCEPT _____
A) Fuel injectors on a gang fire system are wired in series.
B) Lower than specified injector resistance means the injector is shorted.
C) The resistance of a group of injectors that fire at the same time can be tested together.
D) None of these.

Answer: <https://biology-forums.com/index.php?topic=399249>

Question 26

Power windows are being discussed. Technician A says that when one control wire is disconnected all the power windows will fail to operate. Technician B says that a defective ground connection at the master control switch could cause the failure of all power windows. Who is right?
A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398739>

Question 27

Technician A says that an analog scope can store the waveform for viewing later. Technician B says that the trigger level has to be set on most scopes to be able to view a changing waveform. Which technician is correct?
A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398387>

Question 28

Port fuel-injection systems generally use what type of injector driver?
A) Saturated switch B) Pulse-width modulated
C) Pulsed D) Peak and hold

Answer: <https://biology-forums.com/index.php?topic=399235>

Question 29

Cold cranking amps refers to the current a battery produce while sustaining 7.2 volts at what temperature?
A) 32 deg F B) 72 deg F C) 0 deg F D) -10 deg F

Answer: <https://biology-forums.com/index.php?topic=398560>

Question 30

Signs of gasoline contamination of a diesel fuel system include _____.

- A) Excessive white smoke B) High combustion temperatures
C) Rough engine operation D) Any of these

Answer: <https://biology-forums.com/index.php?topic=398956>

Question 31

Two technicians are discussing the term "turbo lag". Technician A says that it refers to the delay between when exhaust leaves the cylinder and when it contacts the turbine blades of the turbocharger. Technician B says the term refers to the delay in boost pressure that occurs when the throttle is first opened. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397987>

Question 32

Which of the following components is common to all vehicles equipped with ABS?

- A) Hydraulic control unit B) Combination valve assembly
C) Pressure relief valves D) Pedal travel sensor

Answer: <https://biology-forums.com/index.php?topic=399799>

Question 33

An engine dynamometer may use devices to convert pressure and temperature signals into electronic signals. These devices are called _____.

- A) Inverters B) Reducers C) Reversers D) Transducers

Answer: <https://biology-forums.com/index.php?topic=398249>

Question 34

Oil contamination of drum brake linings bolted to a solid rear axle may be caused by a _____.

- A) Leaking grease seal B) Plugged axle vent C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399631>

Question 35

The surface finish for the cylinder walls usually depends on _____.

- A) The type of piston rings to be used
B) The type of engine oil that is going to be used in the engine
C) The cylinder wall-to-piston clearance
D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=398156>

Question 36

Technician A says that eye contamination should be treated by flushing with water. Technician B says that professional help should be involved in the event of eye contamination. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397516>

Question 37

Which type of relief valve used on a turbocharged engine is noisy?

- A) Bypass valve B) Blow Off Valve (BOV)
C) Dump valve D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=397989>

Question 38

Defective ball joints can cause all of the following problems EXCEPT _____.

- A) Loud popping or squeaking when driving over bumps
B) Vehicle wander on a straight road
C) Shimmy-type vibration felt in the steering wheel
D) All of these can be caused by defective ball joints

Answer: <https://biology-forums.com/index.php?topic=399971>

Question 39

Two technicians are discussing the testing of a catalytic converter. Technician A says that a vacuum gauge can be used and observed to see if the vacuum drops with the engine at 2500 RPM for 30 seconds. Technician B says that a pressure gauge can be used to check for backpressure. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399343>

Question 40

When checking for the proper operation of the AIR system using an exhaust gas analyzer, how much should the oxygen levels increase when the pump is allowed to function?

A) 1-4% B) 5-10% C) 10-20% D) Up to 30%

Answer: <https://biology-forums.com/index.php?topic=399328>

Question 41

A wide band oxygen sensor heater can draw how much current (amperes)?

A) 2 to 4 A B) 0.8 to 2.0 A C) 8 to 10 A D) 6 to 8 A

Answer: <https://biology-forums.com/index.php?topic=399127>

Question 42

A telescopic gauge can be used to measure a cylinder bore if what other measuring device is used to measure the telescopic gauge?

A) Micrometer B) Dial indicator C) Feeler gauge D) Small hole gauge

Answer: <https://biology-forums.com/index.php?topic=397668>

Question 43

A typical TP sensor registers about how many volts at WOT (wide open throttle)?

A) 13-15 B) 0.5 C) 4.5 D) 1.3-3.0

Answer: <https://biology-forums.com/index.php?topic=399074>

Question 44

Early engines were called flat head designs because they _____.

A) Did not include valves B) Used valves located in the cylinder block
C) Used spark plugs at the top of the cylinders D) Were only inline engines

Answer: <https://biology-forums.com/index.php?topic=397341>

Question 45

The firm setting is usually selected by the electronic suspension control module whenever which of the following occurs?

A) Rapid braking B) Rapid acceleration C) High speed D) All of the above

Answer: <https://biology-forums.com/index.php?topic=400018>

Question 46

Which relay terminal is the normally closed (NC) terminal?

A) 87 B) 30 C) 85 D) 87a

Answer: <https://biology-forums.com/index.php?topic=398457>

Question 47

Technician A says that electronic service information may be expensive to access. Technician B says that electronic service information systems can save time because they can be searched quickly. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397768>

Question 48

Technician A says that reprogramming a PCM using the J2534 system requires a factory scan tool. Technician B says that reprogramming a PCM using the J2534 system requires Internet access. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399384>

Question 49

A valve job restores the valves and seats. This increases manifold vacuum and may cause _____.

A) High idle speeds B) Rough idle
C) Coolant consumption D) Increased oil consumption

Answer: <https://biology-forums.com/index.php?topic=398059>

Question 50

How many degrees of CAMSHAFT rotation are needed for a piston to travel from TDC to BDC and return to TDC?

- A) 90 B) 720 C) 180 D) 360

Answer: <https://biology-forums.com/index.php?topic=397848>

Question 51

An engine block should be machined in which order?

- A) Align honing, cylinder boring, block deck machining
B) Block decking, align honing, cylinder boring
C) Align honing, block decking, cylinder boring
D) Cylinder boring, align honing, block decking

Answer: <https://biology-forums.com/index.php?topic=398163>

Question 52

Technician A says that a wide-band oxygen sensor, also called a lean air-fuel (LAF) sensor, can detect air-fuel ratios from as rich as 10:1 to as lean as 23:1. Technician B says that the oxygen sensor signal determines fuel trim which is used to tailor the air-fuel mixture for the catalytic converter. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399139>

Question 53

A braided wire running from the negative battery terminal to the body of a vehicle is known as a _____.

- A) Redundant source B) Ground strap C) Facilitating circuit D) None of these

Answer: <https://biology-forums.com/index.php?topic=398426>

Question 54

Which component contains the information in the computer that is specific to the particular model vehicle?

- A) Analog to digital converter B) RAM
C) EEPROM D) Transistor

Answer: <https://biology-forums.com/index.php?topic=399038>

Question 55

According to technicians that take the exam, which question type is the most difficult?

- A) Most-likely type questions B) Technician A/ Technician B
C) Multiple choice single answer D) All of these EXCEPT questions

Answer: <https://biology-forums.com/index.php?topic=397474>

Question 56

Which of these should NOT be included on a resume?

- A) A P.O. box address B) Your age
C) Your nickname D) None of these should be included.

Answer: <https://biology-forums.com/index.php?topic=397416>

Question 57

Large national service facility chains may offer training programs for entry level technicians.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=397387>

Question 58

What is the minimum ECT temperature value required for the catalyst efficiency monitor to run under OBD-II?

- A) 165 degrees F B) 195 degrees F C) 180 degrees F D) None of these

Answer: <https://biology-forums.com/index.php?topic=399353>

Question 59

The dry ERBP of brake fluid _____.

- A) Reflects its temperature compatibility
B) Reflects its performance when new and uncontaminated

- C) Is known only to the manufacturer
D) Reflects its performance when in service

Answer: <https://biology-forums.com/index.php?topic=399584>

Question 60

A _____ is the time and distance between two consecutive points, either high or low.

- A) Wavelength B) Amplitude C) Period D) Frequency

Answer: <https://biology-forums.com/index.php?topic=398784>

Question 61

Which of these smoke types indicates oil being burned in the combustion chamber?

- A) Black B) White C) Grey D) Blue

Answer: <https://biology-forums.com/index.php?topic=398017>

Question 62

For high performance use, most experts recommend the use of _____ instead of standard bolts.

- A) Lag bolts B) Prevailing torque bolts
C) Studs D) Nuts

Answer: <https://biology-forums.com/index.php?topic=398233>

Question 63

Which type of hybrid electric design costs the least?

- A) Strong hybrid design B) BAS design
C) Series hybrid design D) Parallel hybrid design

Answer: <https://biology-forums.com/index.php?topic=399416>

Question 64

Which of the following can NOT be used to determine labor time for a repair?

- A) Mitchell guide B) Factory service manual
C) Chilton time guide D) None of these

Answer: <https://biology-forums.com/index.php?topic=397454>

Question 65

Two technicians are discussing oil pumps. Technician A says that many oil pumps are driven directly off the front of the crankshaft. Technician B says that some are driven from the distributor if the engine uses a distributor-type ignition system. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397947>

Question 66

An electrical load _____.

- A) Has electrical resistance B) May be unwanted resistance caused by corrosion
C) May be an electrical device D) All of these

Answer: <https://biology-forums.com/index.php?topic=398344>

Question 67

Early vehicles were constructed mostly of what material?

- A) Steel B) Wood C) Cast iron D) Tin

Answer: <https://biology-forums.com/index.php?topic=397339>

Question 68

Methanol is also called _____.

- A) Methyl hydrate B) Wood alcohol C) Methyl alcohol D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398913>

Question 69

What is a Bonferroni test? Why do we use it?

Answer: <https://biology-forums.com/index.php?topic=408264>

Question 70

The idler gear is used for which gear?

- A) reverse B) third C) second D) first

Answer: <https://biology-forums.com/index.php?topic=400224>

Question 71

An AC system has had about 0.5 lbs of R-22 refrigerant added. What would this cause?

- A) Increased cooling B) No problems, normal AC cooling
C) Low high side pressures D) Very high high side pressures

Answer: <https://biology-forums.com/index.php?topic=398863>

Question 72

Two technicians are discussing the length of an actuators' duty cycle. What type signal are they most likely discussing?

- A) AC current B) Analog
C) Pulse width modulation D) None of these

Answer: <https://biology-forums.com/index.php?topic=400035>

Question 73

On the dual-servo braking system, which shoe does most of the braking during forward movement of the vehicle?

- A) The secondary shoe B) The primary shoe C) Both A and B D) None of the above

Answer: <https://biology-forums.com/index.php?topic=399644>

Question 74

A no-start condition is being discussed on an engine equipped with a waste spark ignition system. Technician A says that a bad CKP (crankshaft position) sensor could be the cause. Technician B says that an open spark plug wire could be the cause. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399004>

Question 75

A traction control system can often control all of these EXCEPT _____.

- A) Apply the wheel brake to the wheel that is losing traction
B) Limit torque delivered to the drive wheels
C) Upshift the transmission
D) Engage four-wheel drive

Answer: <https://biology-forums.com/index.php?topic=399838>

Question 76

ASE certifications are valid for how long?

- A) Ten years B) Five years C) Two years D) They do not expire

Answer: <https://biology-forums.com/index.php?topic=397484>

Question 77

Which of these operations should be performed first?

- A) Grinding the seats B) Installing replacement guides
C) Grinding the valves D) Resurfacing the head

Answer: <https://biology-forums.com/index.php?topic=398095>

Question 78

Technician A says that a relay is an electromagnetic switch. Technician B says that a solenoid uses a movable core. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398490>

Question 79

Eye contact conveys sincerity and interest.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=397440>

Question 80

Two technicians are discussing replacing heater hoses. Technician A says that the replacement hoses should be the same length as the original hoses. Technician B says that the replacement hoses should be cut as short as possible to allow more coolant to flow through the heater core faster. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398867>

Question 81

The _____ is a unit of electrical pressure.

- A) Coulomb B) Ohm C) Volt D) Ampere

Answer: <https://biology-forums.com/index.php?topic=398276>

Question 82

Technician A says that driveability problems may be avoided by using "Top Tier" gasoline. Technician B says that driveability problems may be avoided by always keeping the fuel tank at least one-quarter full. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398902>

Question 83

A tire is labeled 215/60Rx5 92T; the 92 indicates _____.

- A) Tread wear rating B) Temperature resistance rating
C) Load rating D) Speed rating

Answer: <https://biology-forums.com/index.php?topic=399849>

Question 84

The ignition module has direct control over the firing of the coil(s) of an EI system. Which component(s) triggers (controls) the module?

- A) Computer B) Pickup coil C) Crankshaft sensor D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398959>

Question 85

Modern brake tubing is _____.

- A) Double-walled B) Able to withstand an internal pressure of 2000 psi
C) Single-walled D) Made of copper

Answer: <https://biology-forums.com/index.php?topic=399587>

Question 86

Any time a suspension component is replaced or adjusted, wheel alignment should be checked.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=400160>

Question 87

An ignition fault could cause excessive _____ exhaust emissions

- A) NOx B) HC C) CO2 D) CO

Answer: <https://biology-forums.com/index.php?topic=399271>

Question 88

Technician A says that a diesel engine uses the heat of compression to ignite the diesel fuel. Technician B says that direct injection (DI) uses a pre-combustion chamber. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397867>

Question 89

A waste-spark-type ignition system fires _____.

- A) One spark plug with straight polarity B) One spark plug with reverse polarity
C) Two spark plugs at the same time D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398966>

Question 90

Technician A says to bleed the conventional brake system before bleeding the ABS modulator. Technician B says a scan tool may be required to bleed the ABS modulator. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399612>

Question 91

Technician A says that two U-joints are used on a driveshaft to prevent vibration. Technician B says that the more equal the U-joint angles, the less chance of driveshaft vibration. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400249>

Question 92

Technician A says that some vehicles with the Stabilitrak system continuously monitor wheel speed conditions and modulate hydraulic force to individual wheels to maintain stability. Technician B says that vehicles using traction control systems can reduce engine torque in slippery driving conditions. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399842>

Question 93

To prevent blowing the meter fuse in a DMM _____.

- A) Install a fuse in line with the meter lead B) Never test resistance of an energized circuit
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398376>

Question 94

Technician A says that the radiator should always be inspected for leaks and proper flow before installing a rebuilt engine. Technician B says that overheating during slow city driving can be caused by a defective electric cooling fan. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397911>

Question 95

Technician A says that adjustable wrenches should be used to tighten fasteners. Technician B says that adjustable wrenches can round the edges of fasteners. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397595>

Question 96

Technician A says that the fluorescent penetrant test method can be used to detect cracks in iron, steel, or aluminum parts. Technician B says that the dye penetrant test can only be used with aluminum parts. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398077>

Question 97

A typical 6 way power seat uses _____.

- A) 2 electric motors and a 3-way direct acting transmission
B) 1-3 motors (depending on manufacturer)
C) 6 separate grounded electric motors only
D) 6-9 separate PM non-grounded electric motors

Answer: <https://biology-forums.com/index.php?topic=398740>

Question 98

A technician is trying to identify which type of antilock system is installed on a vehicle. A speed sensor is attached to the rear differential housing. Which type of system could this be?

- A) Two-channel ABS B) Three-channel ABS C) Four-channel ABS D) Five-channel ABS

Answer: <https://biology-forums.com/index.php?topic=399806>

Question 99

What can be used to measure the alcohol content in gasoline?

- A) Graduated cylinder B) Electronic Tester C) Scan tool D) Either A or B

Answer: <https://biology-forums.com/index.php?topic=398892>

Question 100

When the exhaust is rich, the PCM applies a _____ current into the pump cell (dual cell sensor).

- A) Negative B) Positive C) Neutral D) None of these

Answer: <https://biology-forums.com/index.php?topic=399146>

Question 101

Technician A says that an adjustable wrench has a box end on one end and an open end at the other end. Technician B says that a combination wrench has a box end at one end and an open end at the other end. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397594>

Question 102

Which type of fuse can handle up to 80 amps?

- A) Maxi B) ATO C) Mini D) None of these

Answer: <https://biology-forums.com/index.php?topic=398449>

Question 103

A clogged EGR could cause excessive _____ exhaust emissions

- A) NOx B) HC C) CO D) CO2

Answer: <https://biology-forums.com/index.php?topic=399270>

Question 104

During which conditions is the torque converter clutch engaged?

- A) During acceleration at highway speeds B) During acceleration from a stop
C) At speeds over 25 MPH D) None of these

Answer: <https://biology-forums.com/index.php?topic=400335>

Question 105

Using ethanol-enhanced or reformulated gasoline can result in reduced fuel economy.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=398896>

Question 106

How is 0.183 pronounced?

- A) One tenth and 83 hundredths B) Zero dot one hundred and eighty three hundredths
C) One hundred eighty three thousandth D) One thousand eighty three

Answer: <https://biology-forums.com/index.php?topic=397732>

Question 107

The pitman shaft is also called the _____.

- A) Sector B) Worm C) Input D) Spline

Answer: <https://biology-forums.com/index.php?topic=400039>

Question 108

Technician A says that changing connecting rod length changes engine stroke. Technician B says that changing connecting rod length changes the position of the piston in the cylinder. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397845>

Question 109

Technician A says that the ASE tests are based mainly on General Motors products. Technician B says that the ASE exam has an essay portion that is graded by a panel of experts. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397472>

Question 110

A battery high rate discharge (load capacity) test is being performed on a 12 volt battery. Technician A says that a good battery should have a voltage reading of higher than 9.6 volts while under load at the end of the 15-second test. Technician B says that the battery should be discharged (loaded) to twice its CCA rating. Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398575>

Question 111

On a bearing that has been shock loaded, the race (cup) of the bearing can be dented. This type of bearing failure is called _____.

A) Spalling B) Arcing C) Fluting D) Brinelling

Answer: <https://biology-forums.com/index.php?topic=399616>

Question 112

Which of these is a version of Byteflight that is a high-speed serial communication system for in-vehicle networks?

A) Flexray BUS B) GMLAN
C) Domestic Digital BUS D) CAN Network

Answer: <https://biology-forums.com/index.php?topic=398545>

Question 113

In what year did ASE create service technician certification tests?

A) 1972 B) 1996 C) 1900 D) 1953

Answer: <https://biology-forums.com/index.php?topic=397360>

Question 114

Technician A says most transmission hydraulic valves are spool valves. Technician B says the recessed areas of a spool valve are called grooves. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400356>

Question 115

Which of these can cause a starter grinding noise?

A) Seized engine B) An overtightened flywheel
C) Neutral safety switch D) Defective starter drive

Answer: <https://biology-forums.com/index.php?topic=398629>

Question 116

The first step in the diagnostic procedure when attempting to solve an HVAC customer problem is _____.

A) Visual inspection B) Check for diagnostic trouble codes
C) Verify customer concern D) Check for technical service bulletins

Answer: <https://biology-forums.com/index.php?topic=398845>

Question 117

Which valve is controlled by the position of the gearshift selector?

A) Detent B) Manual
C) Pressure control D) None of these is correct.

Answer: <https://biology-forums.com/index.php?topic=400352>

Question 118

If bearing-to-journal clearance is doubled, how much oil will flow?

A) One-half as much B) Four times the amount
C) Double the amount D) The same amount if the pressure is kept constant

Answer: <https://biology-forums.com/index.php?topic=398182>

Question 119

Which valve(s) is (are) normally closed?

A) Canister vent valve B) Canister purge valve
C) Both canister purge and canister vent valve D) Neither canister purge nor canister vent valve
Answer: <https://biology-forums.com/index.php?topic=399281>

Question 120

A vehicle equipped with a V-8 engine does not crank fast enough to start. Technician A says that the battery could be discharged or defective. Technician B says that the negative cable could be loose at the battery. Who is right?
A) Technician A B) Technician B C) Both technicians D) Neither technician
Answer: <https://biology-forums.com/index.php?topic=398620>

Question 121

The part of the tire that is just under the tread of a radial tire is called the _____.
A) Belt B) Bead C) Inner liner D) Body (carcass) ply
Answer: <https://biology-forums.com/index.php?topic=399846>

Question 122

The shoe support pads _____.
A) Hold the shoes against the drum when the parking brake is applied
B) Prevent the brake shoes from rotating with the drum
C) Are lightly coated with silicone brake grease to minimize wear
D) Prevent the wheel cylinder pistons from coming out of their bores
Answer: <https://biology-forums.com/index.php?topic=399648>

Question 123

Technician A says that the port fuel injection injectors operate using five volts from the computer. Technician B says that sequential fuel injectors all use a different wire color on the injectors. Which technician is correct?
A) Technician A B) Technician B C) Both technicians D) Neither technician
Answer: <https://biology-forums.com/index.php?topic=399171>

Question 124

The frequency output of a digital MAP sensor is reading 114 Hz. What is the approximate engine vacuum?
A) Zero B) 15 in. Hg C) 10 in. Hg D) 5 in. Hg
Answer: <https://biology-forums.com/index.php?topic=399082>

Question 125

Which of the following is a measure of combustion efficiency?
A) O₂ B) HC C) CO₂ D) CO
Answer: <https://biology-forums.com/index.php?topic=399272>

Question 126

Break-in engine oil is _____.
A) SAE 20W-50
B) SAE 30
C) Of the same viscosity and grade as that specified for normal engine operation
D) SAE 40
Answer: <https://biology-forums.com/index.php?topic=398252>

Question 127

An LED can be used in a _____.
A) Taillight B) Brake light C) Headlight D) All of the above
Answer: <https://biology-forums.com/index.php?topic=398515>

Question 128

A manual transmission is difficult to shift but only when the outside temperature is below freezing (32 F or 0 C). Technician A says that the brass blocking ring could be defective. Technician B says that incorrect gear lubricant could be the cause. Which technician is correct?
A) Technician A B) Technician B C) Both technicians D) Neither technician
Answer: <https://biology-forums.com/index.php?topic=400214>

Question 129

Technician A says that torque always involves movement. Technician B says that torque may be multiplied by leverage. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397704>

Question 130

When the defrost setting is selected the air conditioning compressor operates.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=398793>

Question 131

Technician A says that high HC emission levels are often caused by a fault in the ignition system. Technician B says that high CO₂ emissions are usually caused by a richer-than-normal air-fuel mixture. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399262>

Question 132

Technician A says that the HV battery is grounded to the vehicle chassis. Technician B says that the HV battery and cables are completely insulated and isolated from the rest of the vehicle. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399451>

Question 133

When working with refrigerant lines, which of these wrenches is LEAST likely to round the edges of fasteners?

- A) Combination wrench B) Line wrench

- C) Box end wrench D) None of these

Answer: <https://biology-forums.com/index.php?topic=397596>

Question 134

Which tier of emission standards is the least stringent?

- A) Tier 2 B) Tier 1 C) Tier 3 D) None of these

Answer: <https://biology-forums.com/index.php?topic=397796>

Question 135

If two 4 ohm speakers are connected in parallel, meaning positive (+) to positive (+) and negative (-) to negative (-), the total impedance will be _____.

- A) 6 B) 8 C) 2 D) 1

Answer: <https://biology-forums.com/index.php?topic=398774>

Question 136

What is the purpose and function of an accumulator?

- A) To apply a clutch B) To apply a band

- C) To cushion or dampen pressure surges D) Either A or B

Answer: <https://biology-forums.com/index.php?topic=400346>

Question 137

The following statements are all correct EXCEPT _____.

- A) The fuel rail and pressure regulator should be cleaned as well as fuel injectors.

- B) On engines operating very poorly, the PCM should be relearned after fuel system cleaning.

- C) Relearning the PCM should never be attempted.

- D) Fuel systems that have never been cleaned may have developed wax deposits as well as carbon.

Answer: <https://biology-forums.com/index.php?topic=399258>

Question 138

Technician A says ATF is used to cool, clean, and lubricate an automatic transmission. Technician B says ATF is used to operate the shift valves, and transmit engine torque. Who is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400358>

Question 139

Where is the fuel injected in an engine equipped with gasoline direct injection?

- A) Above the intake port B) Directly into the combustion chamber
C) Into the intake manifold near the intake valve D) In the exhaust port

Answer: <https://biology-forums.com/index.php?topic=399200>

Question 140

Technician A says that when checking engine oil, it is normal for the oil to catch fire if lit by a match. Technician B says that oil on the dipstick that catches fire when lit is a sign of fuel in the oil. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399393>

Question 141

Which battery rating is tested at 0 deg F (-18 C)?

- A) Cranking amperes (CA) B) Reserve capacity
C) Cold-cranking amperes (CCA) D) Battery voltage test

Answer: <https://biology-forums.com/index.php?topic=398553>

Question 142

The _____ the bin number, the cleaner the vehicle.

- A) Lower B) Higher

Answer: <https://biology-forums.com/index.php?topic=397804>

Question 143

Technician A says that ASE provides the question items you missed along with the correct answers to help you study. Technician B says that recertification tests must be taken every 3 years. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397480>

Question 144

Technician A says that glues are used to help gaskets seal. Technician B says that deburring all sharp edges is an important step that has to be done to achieve proper engine assembly. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398228>

Question 145

A noise and a pull toward one side during braking is a common symptom of a worn or defective _____.

- A) Track rod bushing B) Strut rod bushing C) Shock absorber D) Stabilizer bar link

Answer: <https://biology-forums.com/index.php?topic=399958>

Question 146

Which of the following systems will require disabling the high voltage (HV) system during service?

- A) Tire rotation B) Air filter replacement
C) Oil change D) Electric AC compressor replacement

Answer: <https://biology-forums.com/index.php?topic=399461>

Question 147

What can occur if a hybrid electric vehicle is pushed in the shop?

- A) The tires will be locked unless the ignition is on
B) Damage to the electronic controller can occur
C) High voltage will be generated by the motor/ generator
D) The HV battery pack can be damaged

Answer: <https://biology-forums.com/index.php?topic=399440>

Question 148

What is a free internet site that contains case studies of problems and successful repairs?

A) Mitchell.com B) Alldata.com C) IATN.com D) None of these

Answer: <https://biology-forums.com/index.php?topic=397773>

Question 149

Technician A says that when an automatic transmission/transaxle shifts into overdrive, the output shaft is rotating faster (higher RPM) than the engine crankshaft. Technician B says that an overdrive ratio is a ratio where the first number is less than 1. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400324>

Question 150

The brake pad edge code letters "FF" mean _____.

A) Noise level rating B) Coefficient of friction rating
C) Brand name D) Quality factor

Answer: <https://biology-forums.com/index.php?topic=399687>

Question 151

The outboard shoe of a single piston caliper is pushed against the rotor by the _____.

A) Push rod B) Caliper body C) Piston D) Caliper mounting

Answer: <https://biology-forums.com/index.php?topic=399696>

Question 152

During a traction control event, which of the following strategies is usually applied first?

A) Apply the drive wheel brakes B) Reduce engine torque
C) Either A or B depending on conditions D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399845>

Question 153

How much transmission fluid should flow through the cooler?

A) Two pints per minute B) Two quarts per minute
C) One quart per minute D) Two quarts every 30 seconds

Answer: <https://biology-forums.com/index.php?topic=400385>

Question 154

All of these are modes available with the selectable ride (SR) system EXCEPT _____.

A) Sport B) Tour
C) Performance D) All of the above are available modes

Answer: <https://biology-forums.com/index.php?topic=400033>

Question 155

Technician A says that a noise or vibration may be sensed by the driver when the ABS performs a self test. Technician B says that the ABS fuse may have to be removed to erase some ABS diagnostic codes if a scan tool is not used. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399815>

Question 156

Which fuel-injection system uses the MAP sensor as the primary sensor to determine the base pulse width?

A) Mechanical returnless B) Speed density
C) Mass airflow D) Demand delivery

Answer: <https://biology-forums.com/index.php?topic=399168>

Question 157

Technician A says to never open the cooling system when the coolant is hot. Technician B says to periodically inspect the radiator for obstructions. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397827>

Question 158

Capacitors are often used as voltage _____.

A) Transformers B) Conductors C) Shock absorbers D) Resistors

Answer: <https://biology-forums.com/index.php?topic=398484>

Question 159

Automatic parking brake releases _____.

- A) Use an electric solenoid B) Use a vacuum servo
C) Either A or B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399743>

Question 160

Technician A says that brake pad thickness is the only check that needs to be performed. Technician B says that pads can wear unevenly. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399722>

Question 161

What is an advantage to a 401(K) retirement plan?

- A) The income is not taxed until it is withdrawn
B) Many employers will match a percentage of the employee's contribution
C) Both A and B
D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397423>

Question 162

The electrical path to ground may be completed by _____.

- A) The vehicle frame B) The metal body of the vehicle
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398313>

Question 163

Most wheel speed sensors should measure how much resistance?

- A) 800 to 1,400 ohms B) 0.1 to 1 ohm C) 1 to 3 ohms D) 100 to 300 ohms

Answer: <https://biology-forums.com/index.php?topic=399817>

Question 164

Two technicians are discussing scrub radius. Technician A says that scrub radius cannot be measured. Technician B says that scrub radius cannot be adjusted. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400126>

Question 165

When documenting the work order, what things should be listed?

- A) The test equipment used for diagnosis B) The parts that were replaced
C) The test procedure that was followed D) All of these

Answer: <https://biology-forums.com/index.php?topic=397431>

Question 166

Technician A says a that a voltmeter can be used to monitor the output signal of an optical sensor. Technician B says that optical sensors should be tested with an oscilloscope because of the sensor's speed. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399011>

Question 167

Compressed nitrogen is sometimes used for tire inflation because it holds less moisture than compressed air.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=399919>

Question 168

The high voltage cables _____.

- A) Are energized during events where the ignition switch is in the "on" position
- B) Are orange in color
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399445>

Question 169

Which air tool is used to remove rust or gaskets?

- A) Air drill
- B) Air sander
- C) Die grinder
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=397624>

Question 170

Throttle-body fuel-injection systems use what type of injector driver?

- A) Saturated switch
- B) Pulse-width modulated
- C) Pulsed
- D) Peak and hold

Answer: <https://biology-forums.com/index.php?topic=399234>

Question 171

What conducts power and ground to the driver's side airbag?

- A) Carbon contact and brass surface plate on steering column
- B) Clockspring
- C) Twisted pair wires
- D) Magnetic reed switch

Answer: <https://biology-forums.com/index.php?topic=398751>

Question 172

A combination valve could include _____.

- A) Proportioning and pressure-differential valves
- B) Metering and proportioning valves
- C) Proportioning, metering, and pressure-differential valves
- D) Any of the above depending on the make and model of the vehicle

Answer: <https://biology-forums.com/index.php?topic=399552>

Question 173

Which organizations offer updated training for technicians?

- A) Aftermarket part suppliers
- B) IATN
- C) ASA
- D) All of these

Answer: <https://biology-forums.com/index.php?topic=397487>

Question 174

A safety stand is also called a _____.

- A) Jack
- B) Safety stool
- C) Bottle jack
- D) Jack stand

Answer: <https://biology-forums.com/index.php?topic=397640>

Question 175

What is a disadvantage of electronic service information?

- A) High subscription costs
- B) Must be accessed with a computer and printer
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397778>

Question 176

If an interference angle is machined on a valve or seat, the angle is usually _____.

- A) 1-3 degree
- B) 0.005 degree
- C) 1 degree
- D) 0.5-0.75 degree

Answer: <https://biology-forums.com/index.php?topic=398099>

Question 177

What type notification relates to repairs that are always covered by the manufacturer to correct a safety or emission related concern?

- A) Recall
- B) Technical Service Bulletin

C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397774>

Question 178

Technician A says that electronic calculators have a memory function that can be used to calculate resistance, current, and voltage values for a parallel circuit. Technician B says to separate components of a series-parallel circuit to simplify calculations. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398359>

Question 179

Technician A says that most experts recommend replacing all drum brake hardware including the springs every time the brake linings are replaced. Technician B says that the starwheel adjuster must be cleaned and lubricated to assure proper operation. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399668>

Question 180

Ten dollars an hour is about how much income per year?

A) \$30,000 B) \$20,000 C) \$25,000 D) \$35,000

Answer: <https://biology-forums.com/index.php?topic=397403>

Question 181

Why do many vehicle manufacturers recommend that brake fluid be changed regularly?

A) Brake fluid absorbs moisture over time
B) Old brake fluid can cause rust and corrosion of brake system components
C) The boiling point of the brake fluid decreases
D) All of the above

Answer: <https://biology-forums.com/index.php?topic=399613>

Question 182

Corrosion on electrical terminals may cause _____.

A) Increased current flow in the circuit B) Lights to be dimmer than normal
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398324>

Question 183

What component helps isolate road forces and vibration from the steering shaft?

A) U-joint B) Flexible coupling C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400055>

Question 184

A circuit with a short to voltage may cause _____.

A) Other circuits to malfunction B) Improper operation of loads in the circuit
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398325>

Question 185

Technician A says that grooves in the tire tread are necessary for excellent dry traction. Technician B says that grooves in the tire tread are necessary for wet traction, to prevent hydroplaning. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399866>

Question 186

How many wires are used with a potentiometer-type sensor?

A) Three B) One C) Two D) Four

Answer: <https://biology-forums.com/index.php?topic=400029>

Question 187

On a poorly running engine the wide band oxygen sensor can be quickly checked by _____.

A) Disconnecting the vehicle battery B) Jumping the connector with a jumper wire
C) Jumping the connector with a flashlight battery D) Disconnecting the sensor connector
Answer: <https://biology-forums.com/index.php?topic=399143>

Question 188

A material with four electrons in the valence ring is called _____.
A) A conductor B) A semiconductor C) A compound D) An insulator
Answer: <https://biology-forums.com/index.php?topic=398517>

Question 189

Every work order should include the vehicle identification number.
A) True B) False
Answer: <https://biology-forums.com/index.php?topic=397393>

Question 190

Materials with higher dielectric constant ratings have _____ resistance to electrical current.
A) Lower B) Higher C) Equal D) None of these
Answer: <https://biology-forums.com/index.php?topic=398480>

Question 191

What causes a fuse to blow?
A) A decrease in circuit resistance
B) An increase in the current flow through the circuit
C) A sudden decrease in current flow through the circuit
D) Both A and B are correct
Answer: <https://biology-forums.com/index.php?topic=398416>

Question 192

To determine if a product or substance being used is hazardous, consult _____.
A) SAE standards B) A dictionary C) EPA guidelines D) An MSDS
Answer: <https://biology-forums.com/index.php?topic=397519>

Question 193

What term describes an electrical device controlled by an electronic module that performs some kind of mechanical action?
A) Driver B) Actuator C) Activator D) None of these
Answer: <https://biology-forums.com/index.php?topic=400024>

Question 194

The first step in brake pad replacement is _____.
A) Raise the car
B) Remove some fluid from the master cylinder reservoir
C) Swing the caliper away from the anchor plate
D) Remove the pad retaining pins
Answer: <https://biology-forums.com/index.php?topic=399723>

Question 195

The _____ is part of the transmission case on most automatic transmissions.
A) Drive plate B) Bell housing C) Output shaft D) Input gear
Answer: <https://biology-forums.com/index.php?topic=398270>

Question 196

Which media is best to use for cleaning parts, as it does not need to be thoroughly cleaned after using?
A) Stainless steel shot B) Baking soda C) Aluminum shot D) Glass beads
Answer: <https://biology-forums.com/index.php?topic=398064>

Question 197

Technician A says an antilock brake system will always produce the shortest possible stops. Technician B says when braking on loose gravel or dirt, a system that can lock the wheels produces shorter stops than an antilock system. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399803>

Question 198

Excess slack in the parking brake cables can be eliminated in most cases by an adjustment at the _____.

A) Equalizer B) Link C) Star wheel adjusters D) Operating lever

Answer: <https://biology-forums.com/index.php?topic=399740>

Question 199

Technician A says that the bulb trade number is the same for all bulbs of the same size. Technician B says that a dual-filament bulb has different candlepower ratings for each filament. Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398669>

Question 200

The following statements are all correct EXCEPT _____.

A) When the PCM detects detonation using the knock sensor, it will retard ignition timing.

B) Knock sensors require voltage input from the PCM to function properly.

C) The knock sensor may be ignored by the PCM at idle.

D) Ignition timing may be either ATDC, at TDC, or BTDC.

Answer: <https://biology-forums.com/index.php?topic=398990>

Question 201

Gear ratio is expressed as the number of rotations the _____ must make in order to rotate the _____ one revolution.

A) Driven gear/ drive gear B) Input gear/ output gear

C) Drive gear/ driven gear D) Output gear/ input gear

Answer: <https://biology-forums.com/index.php?topic=397739>

Question 202

A technician attaches one lead of a digital voltmeter to the ground terminal of the TP sensor and the other meter lead to the negative terminal of the battery. The ignition is turned on, engine off, and the meter displays 37.3 mV. Technician A says this is the signal voltage and is a little low. Technician B says the TP sensor ground circuit has excessive resistance. Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399068>

Question 203

A capacitor _____.

A) Passes AC B) Blocks DC C) Stores electrons D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398468>

Question 204

Which component is used as a feedback circuit?

A) Sun load sensor B) Potentiometer

C) In-car temperature sensor D) Ambient air temperature sensor

Answer: <https://biology-forums.com/index.php?topic=398839>

Question 205

What is the first screen shown when using electronic service information?

A) Index B) Home C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397772>

Question 206

Which of the following values for IAC count would indicate a vacuum leak on a speed density system?

A) 25 B) 5 or less C) 30 or more D) 15

Answer: <https://biology-forums.com/index.php?topic=399244>

Question 207

Technician A says that torsion bars can be re-installed on either side of the vehicle. Technician B says that torsion bars are often used on 4x4 trucks.

Who is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399948>

Question 208

In which component is heat added to the refrigerant?

- A) Thermostatic expansion valve B) Condenser
C) Evaporator D) None of these is correct

Answer: <https://biology-forums.com/index.php?topic=398808>

Question 209

Technician A says that replacement pistons can be of different weights from the original pistons. Technician B says that some engines use an offset piston pin to help reduce piston slap when the engine is cold. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398149>

Question 210

Technician A says to use SAE 30 engine oil on an engine break-in. Technician B says that it is recommended to change the engine oil and filter after 30 minutes of running time. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398264>

Question 211

The last step in the diagnostic procedure is _____.

- A) Recharge the system B) Perform a visual inspection
C) Verify the repair D) Determine the root cause

Answer: <https://biology-forums.com/index.php?topic=398846>

Question 212

Engine oil level should be checked _____.

- A) With the vehicle parked on level ground B) With the engine running
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397826>

Question 213

Technician A says that most transfer cases have a built in oil pump. Technician B says that most transfer cases use a heavy grease as a lubricant. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400299>

Question 214

Technician A says that disc brake pads should be replaced when worn to the thickness of the steel backing. Technician B says the pads should be removed and inspected whenever there is a brake performance complaint. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399721>

Question 215

Compressing a vapor _____.

- A) decreases the pressure and decreases the temperature.
B) decreases the pressure and increases the temperature.
C) increases the pressure and decreases the temperature.
D) increases the pressure and increases the temperature.

Answer: <https://biology-forums.com/index.php?topic=398811>

Question 216

If 200 psi of hydraulic pressure is applied to a two-square-inch caliper piston, the brake application force on a one-square-inch piston will be

- A) 300 psi B) 400 psi C) 100 psi D) 200 psi

Answer: <https://biology-forums.com/index.php?topic=399546>

Question 217

A 5.7 liter engine is about what size in cubic inches?

- A) 426 B) 305 C) 350 D) 400

Answer: <https://biology-forums.com/index.php?topic=397854>

Question 218

Which statement below is correct?

- A) It is not possible to control the ignition timing for each cylinder separately
B) Ignition control circuits cannot sense the voltage required to fire a spark plug
C) All coil on plug systems require ignition wires
D) Coil on plug systems use one ignition coil per cylinder

Answer: <https://biology-forums.com/index.php?topic=398989>

Question 219

Technician A says that zero degrees Celsius is the freezing temperature of water. Technician B says that 100 degrees Celsius is the boiling temperature of water. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397699>

Question 220

When should DTCs be cleared?

- A) After consulting TSBs B) After the repair has been verified.
C) After pinpointing a problem cylinder D) After the problem has been verified.

Answer: <https://biology-forums.com/index.php?topic=399402>

Question 221

Which angle is largest?

- A) 1/2 degree B) 45 minutes C) 0.55 degrees D) 1/4 degree

Answer: <https://biology-forums.com/index.php?topic=400153>

Question 222

CAN H and CAN L operate how?

- A) CAN L is at 2.5 volts when not transmitting B) CAN H is at 2.5 volts when not transmitting
C) CAN H goes to 3.5 volts when transmitting D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398535>

Question 223

Which term is used to describe a TBI system where the injector pulses once per each distributor reference pulse?

- A) Nonsynchronized B) Speed density C) Synchronized D) Mass airflow

Answer: <https://biology-forums.com/index.php?topic=399183>

Question 224

Technician A says that the purpose and function of the IAT sensor is to provide the engine computer (PCM) with the temperature of the air entering the engine. Technician B says that the IAT sensor information is used for fuel control (adding or subtracting fuel) and spark timing, depending on the temperature of incoming air. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399059>

Question 225

When the concentration of oxygen on the exhaust side of the thimble is low (rich exhaust), a voltage of _____ is generated between the electrodes.

- A) 1.0-2.0 B) 0.25-0.50 C) 0.60-1.0 D) 10-20

Answer: <https://biology-forums.com/index.php?topic=399135>

Question 226

Which of these ATC output devices provides a feedback signal to the electronic control module (ECM)?

- A) Blower motor control B) Air inlet door vacuum motor

C) Blend door actuator D) Mode air door motor

Answer: <https://biology-forums.com/index.php?topic=398840>

Question 227

Which of these should never be used as windshield washer fluid?

- A) 20 % Washer fluid and 80% water mixture B) 50 % Washer fluid and 50% water mixture
C) Pure water D) Ethylene Glycol

Answer: <https://biology-forums.com/index.php?topic=398723>

Question 228

As additional branches are added to a parallel circuit, total circuit amperage _____.

- A) Remains the same B) Increases C) Decreases D) None of these

Answer: <https://biology-forums.com/index.php?topic=398357>

Question 229

Technician A says that a two-wire variable resistor is called a rheostat. Technician B says that a three-wire variable resistor is called a potentiometer. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398277>

Question 230

High pressure common rail fuel injectors are opened by _____.

- A) Solenoids B) Injector pump pressure
C) Engine oil pressure D) Either A or C

Answer: <https://biology-forums.com/index.php?topic=397882>

Question 231

A vehicle is brought in to have an unusual problem repaired. A valuable source of information that may help the technician repair the problem is _____.

- A) The vehicle service records B) A lubrication guide
C) The owner's manual D) None of these

Answer: <https://biology-forums.com/index.php?topic=397780>

Question 232

New vehicle preparation is usually an entry-level vehicle service position and usually involves what duties?

- A) Installing dealer-installed options B) Removal of all protective coverings and plastic
C) Correcting tire pressures D) All of the above

Answer: <https://biology-forums.com/index.php?topic=397371>

Question 233

Technician A says there are no brake lathes that can machine rotors on the vehicle. Technician B says drums may be removed from the vehicle to be machined. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399767>

Question 234

Technician A says that full hybrid electric vehicles need to be plugged into a standard AC electrical outlet to charge. Technician B says that the high voltage battery in an HEV uses a generator driven by the internal combustion engine for recharging. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399428>

Question 235

A fixed-orifice tube _____.

- A) Has an internal valve
B) Has a pressure sensing capability
C) Has a temperature sensing capability
D) Is usually located in the evaporator inlet or line to the evaporator

Answer: <https://biology-forums.com/index.php?topic=398807>

Question 236

Kevlar is the brand name for which fiber used in tire construction?

- A) Nylon B) Aramid C) Polyester D) None of these

Answer: <https://biology-forums.com/index.php?topic=399869>

Question 237

Technician A says that a voltage drop test of the charging circuit should only be performed when current is flowing through the circuit. Technician B says to connect the leads of a voltmeter to the positive and negative terminals of the battery to measure the voltage drop of the charging system. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398658>

Question 238

Most manufacturers specify that the friction surfaces of a rotor must be parallel to within _____.

- A) 0.0005 inch (0.013 mm) B) 0.0001 inch (0.0025 mm)
C) 0.001 inch (0.0254 mm) D) 0.005 inch (0.127 mm)

Answer: <https://biology-forums.com/index.php?topic=399764>

Question 239

Which of these head gaskets is most commonly used on engine equipped with an aluminum cylinder head on a cast iron block?

- A) Perforated steel core B) Solid steel core
C) Multilayered steel (MLS) D) Either A or B

Answer: <https://biology-forums.com/index.php?topic=398211>

Question 240

Which of the following is true of drive pinion mounting?

- A) All support for the pinion shaft comes from two preloaded bearings on a straddle mounted drive pinion
B) Pinion depth does not require adjustment
C) The overhung pinion can be supported by opposed straight roller bearings
D) A compressible spacer separating the two inner races supports an overhung pinion

Answer: <https://biology-forums.com/index.php?topic=400293>

Question 241

Open end and box end wrenches are offset how many degrees for clearance?

- A) 90 degrees B) 15 degrees C) 0 degrees D) 45 degrees

Answer: <https://biology-forums.com/index.php?topic=397593>

Question 242

Which of the following describes why fuel cell technology is NOT in mass production?

- A) Lack of durability B) High cost
C) Insufficient power density D) All of these are correct

Answer: <https://biology-forums.com/index.php?topic=399474>

Question 243

How are most superchargers lubricated?

- A) By an internal oil reservoir
B) By engine oil under pressure through lines from the engine
C) By greased bearings
D) No lubrication is needed because the incoming air cools the supercharger

Answer: <https://biology-forums.com/index.php?topic=397985>

Question 244

Recirculating steel balls are used in most conventional steering gears because they _____.

- A) Provide for a variable ratio
B) Help provide feedback to the driver regarding the road surface
C) Keep the steering wheel centered
D) Reduce friction

Answer: <https://biology-forums.com/index.php?topic=400042>

Question 245

OBD-II regulations require that the EGR system be tested. Technician A says that the PCM can monitor the commanded position of the EGR valve to determine if it is functioning correctly. Technician B says that the PCM can open the EGR valve and monitor for a change in the MAP sensor or oxygen sensor reading to detect if the system is functioning correctly. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399304>

Question 246

A vehicle will pull to the side with the most (positive) toe.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=400129>

Question 247

Technician A says that many unit body suspensions use struts on the rear. Technician B says that most full frame vehicles use struts on the rear. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399996>

Question 248

The electric AIR pump is energized for _____.

- A) No longer than 4 minutes B) Until the engine goes into closed loop
C) Either A or B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399330>

Question 249

Proper lifting usually requires the vehicle to be _____.

- A) Centered in the stall
B) Positioned with the front wheel centered on the tire pad
C) Both A and B
D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397658>

Question 250

The number of the day of the year is known as the _____.

- A) Calendar date B) Julian date C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397775>

Question 251

A V-type engine could have how many cylinders?

- A) 4 B) 8 C) 6 D) All of these

Answer: <https://biology-forums.com/index.php?topic=397342>

Question 252

The amount of light produced by a lamp is measured in _____.

- A) Volts B) Lightpower C) Watts D) Candlepower

Answer: <https://biology-forums.com/index.php?topic=398682>

Question 253

A coil is being tested using current ramping. The waveform should _____.

- A) Start off flat then slope upward B) Slope downward
C) Remain flat D) Slope upward

Answer: <https://biology-forums.com/index.php?topic=398996>

Question 254

Technician A says that a drill is usually needed to remove a rivet. Technician B says that the most common rivet is a pop rivet. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397577>

Question 255

Technician A assumes a replacement part is good just because it is new. Technician B says that sometimes recent repair work will be the cause of a complaint. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399391>

Question 256

Which brushes are not insulated?

- A) No brushes are insulated B) Power
C) Ground D) None of these

Answer: <https://biology-forums.com/index.php?topic=398609>

Question 257

A P0107 DTC is being discussed. Technician A says a that defective MAP sensor could be the cause. Technician B says that a MAP sensor signal wire shorted-to-ground could be the cause. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399087>

Question 258

On a wiring diagram, S110 with a ".8 BRN/BLK" means _____.

- A) Circuit # .8 spliced under the hood
B) A connector with 0.8 square millimeter wire
C) A splice of a brown with black stripe, wire size being 0.8 square millimeters (18 gauge AWG)
D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=398452>

Question 259

Technician A says that carbon inside the engine can cause excessive NOx to form. Technician B says that excessive NOx could be caused by a cooling system fault causing the engine to operate too hot. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399269>

Question 260

An accumulator such as that used on hydraulic brake boosters _____.

- A) Works against engine vacuum
B) Provides a reserve in the event of a failure
C) Reduces brake pedal noise
D) Provides higher force being fed back to the driver's foot

Answer: <https://biology-forums.com/index.php?topic=399774>

Question 261

Typical TP sensor voltage at idle is about _____.

- A) 1.5 to 2.8 volts B) 0.5 volt or 10% of WOT sensor voltage
C) 13.5 to 15.0 volts D) 2.5 to 2.8 volts

Answer: <https://biology-forums.com/index.php?topic=399061>

Question 262

A small leak is detected by the evaporative emission control system monitor that could be caused by a loose gas cap. Which DTC will likely be set?

- A) P0442 B) P0446
C) P0440, P0441, or P0442 D) P0440

Answer: <https://biology-forums.com/index.php?topic=399289>

Question 263

Which type of sealer is to be used on non-machined surfaces?

- A) RTV B) anaerobic sealer C) Either A or B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398206>

Question 264

A MacPherson strut is a structural part of the vehicle.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=399931>

Question 265

Which conventional steering gear adjustment should be the first performed?

- A) Tolerance adjustment B) Gear mesh adjustment
C) Sector shaft end play D) Worm bearing preload

Answer: <https://biology-forums.com/index.php?topic=400043>

Question 266

A common parking brake cable adjuster uses _____.

- A) A lock washer B) A stacked washer C) Two jam nuts D) An eccentric anchor

Answer: <https://biology-forums.com/index.php?topic=399745>

Question 267

What is the color of the warning light that indicates hydraulic system failure?

- A) Amber B) Red C) Yellow D) None of these

Answer: <https://biology-forums.com/index.php?topic=399499>

Question 268

Which alignment angle is LEAST likely to cause tire wear?

- A) Camber B) Caster
C) Toe D) None of these are correct

Answer: <https://biology-forums.com/index.php?topic=400131>

Question 269

Why do researchers concentrate on explaining an interaction in a two-way ANOVA rather than the effects of each factor separately?

Answer: <https://biology-forums.com/index.php?topic=408261>

Question 270

Technician A uses a face shield when using any type of pressure or chemical procedure. Technician B uses protective gloves when working with solvents. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397509>

Question 271

Technician A says that a pickup coil (pulse generator) can be tested with an ohmmeter. Technician B says that ignition coils can be tested with an ohmmeter. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398991>

Question 272

Some vehicles are equipped to signal the computer whenever the power steering pressures increase so the idle speed can be increased to prevent stalling during turns at low speeds. What component signals the computer?

- A) Flow control valve B) Rotary Valve
C) Power steering pressure switch D) Pressure relief valve

Answer: <https://biology-forums.com/index.php?topic=400094>

Question 273

Cruise control systems (without electric throttle) use what type of actuator?

- A) Stepper motor B) Vacuum motor C) Either A or B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398747>

Question 274

A fuel tank expansion chamber is designed to be what percentage of the tank capacity?

A) 2-5% B) 25-30% C) 10-20% D) None of these
Answer: <https://biology-forums.com/index.php?topic=399290>

Question 275

Hazardous materials include all of the following EXCEPT _____.
A) Brake cleaner B) Water C) Engine oil D) Asbestos
Answer: <https://biology-forums.com/index.php?topic=397518>

Question 276

Where is sensor 1, bank 1 located on a V-type engine?
A) On the same bank where number 1 cylinder is located
B) Before the catalytic converter
C) On the bank opposite cylinder number 1
D) Both A and B
Answer: <https://biology-forums.com/index.php?topic=399129>

Question 277

The caliper dust boot may need to be pried out with a(an) _____.
A) Air chisel B) C-clamp C) Screwdriver D) Special tool
Answer: <https://biology-forums.com/index.php?topic=399725>

Question 278

Heat can move or travel by _____.
A) Convection B) Radiation C) Conduction D) All of these
Answer: <https://biology-forums.com/index.php?topic=397698>

Question 279

The purpose of casting steel struts into an aluminum piston is to _____.
A) Provide increased strength
B) Provide increased weight at the top part of the piston where it is needed for stability
C) Control thermal expansion
D) Both A and C
Answer: <https://biology-forums.com/index.php?topic=398141>

Question 280

A strut-type suspension is used _____.
A) In the rear only B) In the front only
C) In both the front and rear D) In rare vehicles no longer in production
Answer: <https://biology-forums.com/index.php?topic=399986>

Question 281

Technician A says that ABS-equipped vehicles can stop quickly and without skidding on all road surfaces even if covered with ice. Technician B says that steering is possible during an ABS stop. Which technician is correct?
A) Technician A only B) Technician B only C) Both technicians D) Neither technician
Answer: <https://biology-forums.com/index.php?topic=399790>

Question 282

Most rigid refrigerant lines are made of _____.
A) Steel B) Aluminum C) Copper D) Titanium
Answer: <https://biology-forums.com/index.php?topic=398809>

Question 283

Technician A says AC system lines and hoses that are cold have lower refrigerant pressure than warmer lines and hoses. Technician B says frost on a system component usually indicates a refrigerant leak in that area. Which technician is correct?
A) Technician A B) Technician B C) Both technicians D) Neither technician
Answer: <https://biology-forums.com/index.php?topic=398855>

Question 284

Technician A says that water floats to the top of fuel in the tank. Technician B says that water is more likely to be drawn into the system when the fuel level is low. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399395>

Question 285

The normal operating temperature (coolant temperature) of an engine equipped with a 195°F thermostat is _____.

- A) 175°F to 215°F B) 195°F to 215°F C) 185°F to 205°F D) 175°F to 195°F

Answer: <https://biology-forums.com/index.php?topic=397913>

Question 286

A high O2S voltage could be due to _____.

- A) A rich exhaust B) A lean exhaust
C) A defective spark plug wire D) Both A and C

Answer: <https://biology-forums.com/index.php?topic=399120>

Question 287

The chemical reaction in a fuel cell is called electrolysis.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=399482>

Question 288

Which is true regarding red colored diesel fuel?

- A) It is designed for off road use only
B) Use as fuel for vehicles driven on public highways is illegal
C) Both A and B
D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398955>

Question 289

An alternator has zero output. Technician A says that the alternator field circuit may have an open circuit. Technician B says that the fusible link may be open in the alternator to battery wire. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398667>

Question 290

All radial tires are belted.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=399858>

Question 291

What needs to be removed before the valves can be removed from the cylinder head?

- A) The valve keepers B) The camshaft, if OHV engine
C) The cylinder head from the block D) Both A and C

Answer: <https://biology-forums.com/index.php?topic=398043>

Question 292

The use of an electronic control (ETC) system allows the elimination of all of these EXCEPT _____.

- A) Idle air control B) Mechanical throttle cable (most systems)
C) Cruise control actuator D) Accelerator pedal

Answer: <https://biology-forums.com/index.php?topic=399217>

Question 293

What type of device is used in a typical idle air control?

- A) Stepper motor B) Solenoid
C) DC motor D) Pulsator-type actuator

Answer: <https://biology-forums.com/index.php?topic=399175>

Question 294

A freeze frame is stored when a type _____ DTC is set.

- A) B or C B) C or D C) A or B D) A or C

Answer: <https://biology-forums.com/index.php?topic=399411>

Question 295

In a normally operating engine, intake and exhaust valves are opened by a cam and closed by _____.

- A) Valve guides and/or pushrods B) Valve springs
C) Lifters/tappets D) Rocker arms or cam follower

Answer: <https://biology-forums.com/index.php?topic=398098>

Question 296

When axle windup is controlled by the rear leaf spring during acceleration, the suspension type is called a(an) _____.

- A) Hotchkiss drive B) Torque arm C) Trailing arm D) Semi-trailing arm

Answer: <https://biology-forums.com/index.php?topic=399983>

Question 297

Alternator brushes are constructed from _____.

- A) Aluminum B) Silver-copper alloy C) Carbon D) Copper

Answer: <https://biology-forums.com/index.php?topic=398636>

Question 298

Which type of DMM can measure current when clamped around a conductor?

- A) Reluctive B) Inductive C) Selective D) None of these

Answer: <https://biology-forums.com/index.php?topic=398377>

Question 299

Normal oil pump pressure in an engine is _____ PSI.

- A) 150-200 B) 10-60 C) 100-120 D) 3-7

Answer: <https://biology-forums.com/index.php?topic=397946>

Question 300

Which term describes the PCM using oxygen sensor feedback to control fuel delivery?

- A) Open loop mode B) Clear flood mode C) Closed loop mode D) Starting mode

Answer: <https://biology-forums.com/index.php?topic=399197>

Question 301

Which manufacturer participates with AYES?

- A) Toyota B) Honda C) Mercedes D) All of these

Answer: <https://biology-forums.com/index.php?topic=397411>

Question 302

Technician A says that the connecting rod and main bearing caps should be marked before removing to ensure that they can be reinstalled in the exact same location when re-assembled. Technician B says that the tip of the valve stem should be filed before removing valves from the cylinder head to help prevent damage to the valve guide. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398051>

Question 303

Electrical controls such as switches _____.

- A) Control electrical flow in the circuit
B) May be on either the source or ground side of the circuit
C) Both A and B
D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398314>

Question 304

Semiconductors have how many electrons in their valence rings?

- A) More than four B) Less than four C) Four D) None of these

Answer: <https://biology-forums.com/index.php?topic=398286>

Question 305

Two technicians are discussing torque steer on a front wheel-drive vehicle. Technician A says that equal length drive axle shafts help reduce torque steer. Technician B says that equal drive axle shaft angles help reduce torque steer. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400231>

Question 306

If the clearance between the starter pinion and the engine flywheel is too great, _____.

- A) The starter will produce a high pitched whine during cranking
B) The starter drive will not rotate at all
C) The starter will produce a high pitched whine after the engine starts
D) The solenoid will not engage the starter drive

Answer: <https://biology-forums.com/index.php?topic=398618>

Question 307

Technician A says that only manufacturers offer vehicle warranties. Technician B says that aftermarket warranties are available for consumers to purchase. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397380>

Question 308

Before the airbag can inflate, the squib circuit must have a ground. The ground is provided through the actuation of which of these?

- A) Forward discriminating sensor B) Passenger discriminating sensor
C) Either A or B D) Seat belt switch

Answer: <https://biology-forums.com/index.php?topic=398766>

Question 309

Technician A says that an oxygen sensor produces a voltage output signal based on the oxygen content of the exhaust stream. Technician B says that if the exhaust has little oxygen the voltage of the oxygen sensor will be close to 0 volts. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399132>

Question 310

The proper order in which to perform a four-wheel alignment is _____.

- A) Front toe, camber, front caster, rear camber, then rear caster
B) Front camber, caster toe, rear camber, then rear toe
C) Rear camber, front camber, caster, front toe, rear toe
D) Rear camber and toe, front camber, caster, then front toe

Answer: <https://biology-forums.com/index.php?topic=400159>

Question 311

The oil pressure relief valve controls _____ oil pressure in the lubrication system.

- A) Maximum B) Minimum C) Average D) Nominal

Answer: <https://biology-forums.com/index.php?topic=397959>

Question 312

What color exhaust smoke occurs most often during cold engine starts because the smoke is usually condensed fuel droplets?

- A) Black B) White C) Blue D) Grey

Answer: <https://biology-forums.com/index.php?topic=397875>

Question 313

A short circuit can be located using a _____.

- A) Tone generator B) Gauss gauge C) Test light D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398460>

Question 314

Which of the following is true regarding the cabin air filter?
A) It is mounted in the incoming air stream from the cowl intake
B) Filter restrictions can reduce the volume of air entering the passenger compartment
C) Both A and B are correct
D) Neither A nor B is correct

Answer: <https://biology-forums.com/index.php?topic=398841>

Question 315

Which of these is a measure of how well a battery can create current?
A) Resistance B) Conductance C) Reluctance D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=398587>

Question 316

When the driver depresses the clutch pedal, the pressure plate moves _____.
A) Toward the flywheel and clutch disc
B) The pressure plate does not move
C) Away from the flywheel and clutch disc

Answer: <https://biology-forums.com/index.php?topic=400204>

Question 317

The Clean Air Act, Title VI Section 609, applies to which automotive system?
A) Air conditioning B) Power steering C) Brake D) Exhaust

Answer: <https://biology-forums.com/index.php?topic=397550>

Question 318

A bearing shell has a slightly larger arc than the bearing housing. This difference is called _____.
A) Bearing crush B) Bearing spread C) Bearing saddle D) Bearing tang

Answer: <https://biology-forums.com/index.php?topic=398184>

Question 319

Technician A says that by full fielding the alternator, you are bypassing the voltage regulator. Technician B says that full fielding can possibly damage electronic circuits, so it is no longer a recommended test. Who is right?
A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398663>

Question 320

Technician A says the vertical axis on a graph is called the x axis. Technician B says the horizontal axis on a graph is called the y axis. Which technician is correct?
A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397743>

Question 321

Which of these objects have a mass of approximately one gram?
A) Large bolt B) Small paper clip C) Birds feather D) None of these

Answer: <https://biology-forums.com/index.php?topic=397675>

Question 322

The Rzeppa type joint is the most commonly used outer joint on FWD vehicles.
A) True B) False

Answer: <https://biology-forums.com/index.php?topic=400241>

Question 323

A compression-sensing ignition system uses a _____ type ignition.
A) Waste-spark B) Coil-on-plug C) Distributor D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398961>

Question 324

A data bus is being checked for voltage activity. Both the DMM and the oscilloscope show a constant zero volts with the key on or off. This indicates _____.

- A) Normal activity B) A sleeping module
C) The data line is shorted to ground D) None of these

Answer: <https://biology-forums.com/index.php?topic=398548>

Question 325

A bulge on a brake hose is _____.

- A) An indication of an internal leak B) Normal only on hoses made before the mid-1960s
C) Normal with silicone brake fluid D) Normal

Answer: <https://biology-forums.com/index.php?topic=399588>

Question 326

The air/fuel mixture flows through the intake manifold on what type of system?

- A) Port fuel injection B) Any fuel injected engine
C) Both port injection and throttle body injection D) Throttle body fuel injection

Answer: <https://biology-forums.com/index.php?topic=397965>

Question 327

What is the name of the General Motors technician training program?

- A) T-TEN B) PROTECH C) ASEP D) None of these

Answer: <https://biology-forums.com/index.php?topic=397412>

Question 328

Technician A says that when repairing brakes, it is a good practice to inspect the backing plate for a bent or cracked structure. Technician B says that the pads of the backing plate should be lubricated with heavy grease before installing new shoes. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399677>

Question 329

When servicing a drive axle, technician A says that its a good idea to tape the U-joint caps to prevent them from coming off. Technician B says that needle bearings are used with these type U-joints. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400267>

Question 330

Technician A says that it is a good idea to recommend replacing upper strut bearings when replacing MacPherson struts. Technician B says that all MacPherson struts can be serviced by replacing the cartridge inside the strut assembly. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399980>

Question 331

When measuring a cylinder for wear, the most wear will be found at the _____.

- A) 5 inches from the top B) Middle of the cylinder
C) Top of cylinder D) Bottom of cylinder

Answer: <https://biology-forums.com/index.php?topic=398173>

Question 332

A 5 ribbed serpentine belt should be tensioned at about _____.

- A) 150 lbs. B) 75 to 100 lbs. C) 45 to 60 lbs. D) None of these

Answer: <https://biology-forums.com/index.php?topic=397924>

Question 333

Polyglycol brake fluid is labeled _____.

- A) DOT 5 B) DOT 3 or 4 C) DOT 5 or 6 D) DOT 6

Answer: <https://biology-forums.com/index.php?topic=399585>

Question 334

What lubricant should be used when mounting a tire?

- A) Grease B) Silicone spray
C) SAE 10W-30 engine oil D) Water-based soap

Answer: <https://biology-forums.com/index.php?topic=399896>

Question 335

An engine designed to use nitrous oxide injection should have which of these features?

- A) High strength or forged crankshaft B) Forged connecting rods
C) Forged pistons D) All of these

Answer: <https://biology-forums.com/index.php?topic=398002>

Question 336

All of the following are usual duties of a lube technician EXCEPT _____.

- A) Accessory drive belt inspection B) Water pump replacement
C) Oil change D) Air filter replacement

Answer: <https://biology-forums.com/index.php?topic=397370>

Question 337

Which tool is NOT recommended to be used to separate tapered steering components because it can do harm?

- A) Taper breaker B) Pickle fork
C) Two hammers D) Tie rod removal puller

Answer: <https://biology-forums.com/index.php?topic=400069>

Question 338

Computer skills are only important for the service advisor who creates the work order.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=397408>

Question 339

Technician A says that work is being performed if a force is being applied, yet the object does not move. Technician B says that torque is a twisting force that may or may not result in motion. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397694>

Question 340

Technician A says that most hybrids use the series hybrid design. Technician B says that some hybrids have 42 volt batteries. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399419>

Question 341

_____ action uses drum rotation to force the brake shoe outward and wedge it tightly against the brake drum.

- A) Centrifugal B) Centripetal C) Self-energizing D) Servo

Answer: <https://biology-forums.com/index.php?topic=399651>

Question 342

When the oil pressure drops to between 3 and 7 psi, the oil pressure lamp lights by _____.

- A) Opening the circuit B) Grounding the circuit
C) Shorting the circuit D) Conducting current to dash lamp by oil

Answer: <https://biology-forums.com/index.php?topic=398689>

Question 343

Technician A says that the engine oil used should be meet the vehicle manufacturer's standards. Technician B says that the specified viscosity of oil should be used. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397931>

Question 344

Which diesel system supplies high-pressure diesel fuel to all of the injectors all of the time?

- A) Distributor B) Rotary
C) Inline D) High pressure common rail

Answer: <https://biology-forums.com/index.php?topic=397863>

Question 345

Which tire inflation information should be checked to determine the proper tire inflation pressure?

- A) 32 PSI in all tires
B) Cold placard inflation pressure
C) The maximum pressure as stated on the sidewall of the tire
D) Any of the above

Answer: <https://biology-forums.com/index.php?topic=399876>

Question 346

Technician A says that many vehicles use lower control arms with non-removable ball joints. Technician B says that heat should be used to bend a deformed suspension component within specifications. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399977>

Question 347

A _____ is a variable-resistance sensor with three terminals.

- A) Thyristor B) Rheostat C) Potentiometer D) Thermistor

Answer: <https://biology-forums.com/index.php?topic=399075>

Question 348

Technician A says the ring gear is attached to the drive shaft flange on RWD vehicles. Technician B says the pinion gear is attached to the drive shaft flange on RWD vehicles. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400291>

Question 349

Creating electricity by exerting force on a crystal is called _____.

- A) Photoelectricity B) Thermoelectricity C) Piezoelectricity D) Electrochemistry

Answer: <https://biology-forums.com/index.php?topic=398278>

Question 350

The addition of cerium to catalytic converters provided what benefit?

- A) Purification of NOx B) Stores oxygen to help with the oxidation process
C) Reduction of NOx D) None of these

Answer: <https://biology-forums.com/index.php?topic=399350>

Question 351

Technician A says that most manufacturers specify replacement of the air filter every 30,000 miles. Technician B says that the air filter should be replaced every year. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397819>

Question 352

A bolt of lightning generates broad radio frequency bandwidths known as _____.

- A) Frequency Modulation (FM) B) Electromagnetic Interference (EMI)
C) Radio Frequency Interference (RFI) D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=398788>

Question 353

For every one PSI increase in cooling system pressure, the coolant's boiling point is raised how many degrees F?

- A) Three B) One C) Two D) Five

Answer: <https://biology-forums.com/index.php?topic=397925>

Question 354

On a vehicle using an electrical power management system (EPM), how is the current to the battery measured?

- A) By use of a duty-cycle sensor B) With an in-line ammeter
C) By using a custom voltmeter D) With a Hall effect sensor

Answer: <https://biology-forums.com/index.php?topic=398651>

Question 355

All of the following are correct statements about braking EXCEPT _____.

- A) If the weight of the vehicle is doubled, the kinetic energy of a moving vehicle is doubled.
B) Kinetic energy of a vehicle doubles when the speed doubles.
C) Kinetic energy must be absorbed by the brake system.
D) The heavier the vehicle, the greater the kinetic energy when moving.

Answer: <https://biology-forums.com/index.php?topic=397692>

Question 356

When taking an ASE certification test, _____.

- A) No marks are allowed on the test B) You can write on the test itself if you wish
C) Only one test can be taken D) Some hands-on activities may be required

Answer: <https://biology-forums.com/index.php?topic=397462>

Question 357

Which of the following is NOT a sensor in an ATC system?

- A) In-car temperature sensor B) Humidity sensor
C) Sun load sensor D) Ambient air temperature sensor

Answer: <https://biology-forums.com/index.php?topic=398838>

Question 358

Technician A says that a creeper should be stored vertically. Technician B says that a creeper should be stored on its casters. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397648>

Question 359

Which item is usually NOT included in a first aid kit?

- A) Antibiotic cream B) Bandages C) Fire blanket D) Eye wash solution

Answer: <https://biology-forums.com/index.php?topic=397497>

Question 360

Technician A says that in going to high altitudes, engines produce lower power. Technician B says that most engine control systems can compensate the air-fuel mixture for changes in altitude. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398890>

Question 361

Two technicians are discussing dual-stage airbags. Technician A says that a deployed airbag is safe to handle regardless of which stage caused the deployment of the airbag. Technician B says that both stages ignite, but at different speeds depending on the speed of the vehicle. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398752>

Question 362

When the brakes are applied in a panic situation, the rear brakes have a tendency to skid. The most likely cause is _____.

- A) Proportioning valve is faulty B) Quick take-up valve in the master cylinder
C) Compensation port clogged in the master cylinder D) Metering valve is faulty

Answer: <https://biology-forums.com/index.php?topic=399560>

Question 363

Two technicians are discussing differentials. Technician A says that all differentials are vented. Technician B says that a clogged vent can cause the rear axle seal to leak. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399623>

Question 364

What polluting chemical compound is caused by evaporating gasoline?

- A) Ozone B) Hydrocarbons (VOCs)
C) Carbon monoxide D) None of these

Answer: <https://biology-forums.com/index.php?topic=399291>

Question 365

Technician A says that PCV valves should rattle when shaken. Technician B says that a defective PCV system may cause leaking engine seals. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399336>

Question 366

Technician A says that chrome rings are the best rings to use in an unbored cylinder. Technician B says that ring end gap is non-adjustable; therefore there is no need to check it when reassembling the engine. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398154>

Question 367

Technician A says that some power assist systems use an external cooler for the power steering fluid. Technician B says that all variable assist systems are electrically actuated. Who is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400101>

Question 368

When measuring resistance, a reading of OL on the DMM indicates _____.

- A) Continuity of the circuit B) A defective meter probe
C) An open circuit D) None of these

Answer: <https://biology-forums.com/index.php?topic=398380>

Question 369

In typical engine lubrication systems, what components are the last to receive oil and the first to suffer from a lack of oil or oil pressure?

- A) Oil filter B) Valve train components
C) Main bearings D) Rod bearings

Answer: <https://biology-forums.com/index.php?topic=397950>

Question 370

How might a ring be a safety hazard?

- A) It could get caught on a moving part B) It could become a path for an electrical circuit
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397501>

Question 371

Vapor lock can occur _____.

- A) If a fuel line is restricted B) As a result of excessive heat near fuel lines
C) During both A and B D) During neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398887>

Question 372

An open electrical circuit has zero ohms resistance.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=398323>

Question 373

Hydraulic valve lifters can make a ticking noise when the engine is running if _____.

- A) Valve lash is too close
- B) Valve lash is too loose
- C) Lobe centerline is over 110°
- D) Both A and C

Answer: <https://biology-forums.com/index.php?topic=398122>

Question 374

GDI fuel injectors operate under a pressure of about _____.

- A) 2,000 to 5,000 PSI
- B) 35 to 45 PSI
- C) 90 to 150 PSI
- D) 500 to 2,900 PSI

Answer: <https://biology-forums.com/index.php?topic=399205>

Question 375

Which sensor has the greatest influence on injector pulse width besides the MAF sensor?

- A) TP
- B) IAT
- C) ECT
- D) BARO

Answer: <https://biology-forums.com/index.php?topic=399170>

Question 376

The following statements are all correct EXCEPT _____.

- A) Airbags should be stored facing downward.
- B) Airbags may be accidentally deployed by electrostatic discharge.
- C) Airbag circuits should be properly disabled and discharged before working near the area in a vehicle.
- D) Airbags contain material that may irritate the skin.

Answer: <https://biology-forums.com/index.php?topic=397542>

Question 377

Cast iron has about how much carbon content?

- A) 4% or higher
- B) 3%
- C) 2%
- D) Less than 1%

Answer: <https://biology-forums.com/index.php?topic=398158>

Question 378

What term describes the movement of electrons from one atom to another?

- A) Energy transfer
- B) Chain reaction
- C) Electricity
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=398281>

Question 379

The valves could be bent if the timing belt breaks on which of these?

- A) In-block cam engine
- B) Freewheeling engine design
- C) Interference engine design
- D) Undersquared engine

Answer: <https://biology-forums.com/index.php?topic=398137>

Question 380

All of the following are specified by the FMVSS 135 EXCEPT _____.

- A) Brake noise levels
- B) Cold effectiveness
- C) Variable brake proportioning system
- D) Brake burnish procedure

Answer: <https://biology-forums.com/index.php?topic=399497>

Question 381

When checking the operation of a rear-window defogger with a voltmeter _____.

- A) Voltage should be available anytime at the power side of the grid because the control circuit just completes the ground side of the heater grid circuit
- B) The voltmeter should be set to read AC volts
- C) The voltmeter should read close to battery voltage anywhere along the grid
- D) The voltmeter should indicate decreasing voltage when grid is tested across width of glass

Answer: <https://biology-forums.com/index.php?topic=398732>

Question 382

If the first character of the VIN is an "S", where was the vehicle made?

- A) Canada
- B) United States
- C) England
- D) Mexico

Answer: <https://biology-forums.com/index.php?topic=397789>

Question 383

Technician A says that a defective spark plug wire can cause an engine misfire. Technician B says that a defective spark plug can cause an engine misfire. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398992>

Question 384

Magnetic field strength is measured in _____.

- A) Density B) Ampere-turns C) Coil strength D) Flux

Answer: <https://biology-forums.com/index.php?topic=398495>

Question 385

Technician A says that the connecting rods should be marked before disassembly. Technician B says that pistons are cam ground so that when operating temperature is reached, the piston will have expanded enough across the piston pin area to become oval shaped. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398148>

Question 386

Vehicles equipped with diesel engines may have two batteries connected in parallel in order to provide additional current at the same voltage. Technician A says to successfully test the batteries, they should be disconnected and tested separately. Technician B says that a fault in one battery has NO effect on the other battery. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398586>

Question 387

The hand wheel position sensor is located _____.

- A) Under the driver's side carpet B) On the steering rack assembly
C) In the steering column D) In the air bag clock spring

Answer: <https://biology-forums.com/index.php?topic=399844>

Question 388

Testing for galvanic activity is done with the coolant _____ and the engine _____.

- A) Cool; not running B) Cool; running
C) Warm; running D) Warm; engine not running

Answer: <https://biology-forums.com/index.php?topic=397901>

Question 389

The light indicating a problem with the ABS system is colored _____.

- A) Green B) Red C) Amber D) None of these

Answer: <https://biology-forums.com/index.php?topic=398704>

Question 390

Which term describes electrical current resulting from pressure applied to certain crystals?

- A) Thermodynamics B) Photoelectricity C) Piezoelectricity D) None of these

Answer: <https://biology-forums.com/index.php?topic=398291>

Question 391

A catalytic converter is being tested with an infrared pyrometer. Which is an acceptable result?

- A) The outlet should be hotter than the inlet by 10%
B) The temperature of a catalytic converter is the best test to perform to locate a restricted unit
C) Both the inlet and outlet should be the same temperature after the converter reaches operating temperature
D) The inlet should be hotter than the outlet by 10%

Answer: <https://biology-forums.com/index.php?topic=399344>

Question 392

When measuring the specific gravity of the electrolyte, the maximum allowable difference between the highest and lowest hydrometer reading is

_____.

A) 0.50 B) 0.050 C) 0.020 D) 0.010

Answer: <https://biology-forums.com/index.php?topic=398574>

Question 393

The crankshaft journals have been turned. What size bearings should be installed?

- A) Oversize B) Undersize
C) Standard D) It makes no difference which size is installed

Answer: <https://biology-forums.com/index.php?topic=398190>

Question 394

The sum of currents in each branch of a parallel circuit will _____ total circuit current.

- A) Be less than B) Equal C) Be more than D) None of these

Answer: <https://biology-forums.com/index.php?topic=398353>

Question 395

The major bearing(s) used with a clutch assembly is (are) the _____.

- A) Release bearing that is mounted at the front of the transmission
B) Pilot bearing that supports the end of the transmission input shaft
C) Both A and B
D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400199>

Question 396

Vacuum bleeding requires _____.

- A) Metering valve override
B) A pump handle to be squeezed to create a partial vacuum in a catch bottle.
C) Both A and B
D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399609>

Question 397

All of the following can increase the pressure in the evaporative emission system EXCEPT _____.

- A) Volatility of the fuel B) Fuel temperature
C) Returned fuel from the fuel injection system D) Inlet fuel to the fuel pump

Answer: <https://biology-forums.com/index.php?topic=399282>

Question 398

Technician A says that carburetor cleaner is one of the most common cold soak agents used in an engine reconditioning shop. Technician B says that a hydroseal is a layer of water on top of the solvent to prevent evaporation. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398074>

Question 399

The current flowing into each junction of a parallel circuit _____ the current flow at the junction on the opposite end of that branch.

- A) Is less than B) Is more than C) Equals D) None of these

Answer: <https://biology-forums.com/index.php?topic=398350>

Question 400

Technician A says that the primary coil has more windings. Technician B says that the secondary coil has more windings. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398974>

Question 401

Which air impact drive size is the most commonly used?

- A) 3/8 inch B) 1/4 inch C) 3/4 inch D) 1/2 inch

Answer: <https://biology-forums.com/index.php?topic=397612>

Question 402

If the center section of a wheel is outward from the wheel center line, it has _____.

- A) Positive offset B) Negative offset

Answer: <https://biology-forums.com/index.php?topic=399862>

Question 403

The first step in brake drum removal is to:

- A) Remove the drum retaining device
B) Loosen the parking brake cable
C) Mark the drum R or L
D) Remove the master cylinder cover to bleed off hydraulic pressure

Answer: <https://biology-forums.com/index.php?topic=399673>

Question 404

What type of socket should be used with an air impact wrench?

- A) Black B) Chrome C) 12 point D) Either A or B

Answer: <https://biology-forums.com/index.php?topic=397613>

Question 405

The typical MAF reading on a scan tool with the engine at idle speed and normal operating temperature is _____.

- A) 8 to 12 grams per second B) 14 to 24 grams per second
C) 1 to 3 grams per second D) 3 to 7 grams per second

Answer: <https://biology-forums.com/index.php?topic=399103>

Question 406

Tire inflation is very important to the safe and economical operation of any vehicle. Technician A says that the tire pressure should never exceed the maximum pressure imprinted on the sidewall of the tire. Technician B says to inflate tires to the pressures recommended on the tire information decal or placard on the drivers door. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399851>

Question 407

What part is often NOT used on a front-wheel drive vehicle with a manual transaxle?

- A) Release bearing B) Pilot bearing C) Flywheel D) Clutch fork

Answer: <https://biology-forums.com/index.php?topic=400182>

Question 408

What component regulates the temperature of the coolant in an engine?

- A) Thermostat B) Radiator
C) Cooling (water) jackets D) Cooling fans

Answer: <https://biology-forums.com/index.php?topic=397343>

Question 409

An engine block is being fitted with studs. Technician A says that the tightening torque in the installation instructions is for the stud and not the nut. Technician B says that if a thread locker is used, be sure to immediately install the main bearing caps before the compound cures to help avoid misalignment. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398234>

Question 410

If the oil pressure warning lamp on a General Motors vehicle is on all the time, yet the engine oil pressure is normal, the problem could be _____.

- A) Defective (shorted) oil pressure sending unit (sensor)
B) Defective (open) oil pressure sending unit (sensor)
C) Wire shorted-to-ground between sending unit and dash warning lamp
D) Either A or C

Answer: <https://biology-forums.com/index.php?topic=398688>

Question 411

If a vehicle tends to continue straight ahead while cornering, the condition is called _____.

- A) Understeer B) Tight C) Plowing D) All of the above

Answer: <https://biology-forums.com/index.php?topic=399836>

Question 412

A mentor performs all of the following EXCEPT _____.

- A) Helps guide diagnosis of a problem B) Offers advice on how to do a job
C) Advises on professional behavior D) Signs paychecks

Answer: <https://biology-forums.com/index.php?topic=397437>

Question 413

The automotive engine uses about _____ gallons of air for every gallon of gasoline burned at an air-fuel ratio of 14.7 to 1.

- A) 9000 B) 7000 C) 4000 D) 2000

Answer: <https://biology-forums.com/index.php?topic=397978>

Question 414

The high-pressure fuel pressure is regulated by using _____.

- A) A vacuum-biased regulator B) A mechanical regulator at the inlet to the fuel rail
C) An electric pressure control valve D) A non-vacuum-biased regulator

Answer: <https://biology-forums.com/index.php?topic=399204>

Question 415

Technician A says that fuel cell cooling systems can use heat exchangers with small surface areas. Technician B says that fuel cell cooling systems must use heat exchangers with large surface areas. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399488>

Question 416

The greater an object's mass at a given speed, the _____ kinetic energy it possesses.

- A) Greater B) Equal C) Less D) None of these

Answer: <https://biology-forums.com/index.php?topic=397712>

Question 417

Which of the following is used in modern automobiles to transfer heat energy?

- A) Engine coolant B) Refrigerant
C) Both A and B are correct D) Neither A nor B are correct

Answer: <https://biology-forums.com/index.php?topic=398814>

Question 418

3/16 is what number in decimal form?

- A) 0.5333 B) 1.875 C) 0.1875 D) 5.333

Answer: <https://biology-forums.com/index.php?topic=397731>

Question 419

The temperature of heated seats is regulated by _____.

- A) a heat sensor on top of the under-seat carpet B) thick seat insulation
C) a seat cushion temperature sensor and seat module D) None of these

Answer: <https://biology-forums.com/index.php?topic=398745>

Question 420

Which type of CV joint transfers energy using six balls enclosed in cages to allow movement?

- A) Tripod B) Rzeppa C) Cardan D) None of these

Answer: <https://biology-forums.com/index.php?topic=400251>

Question 421

The chamfer on the inside edge of a brake drum usually indicates _____.

A) Machine to diameter B) Bi-metallic drums (1/2 cast iron and 1/2 steel)
C) Maximum allowable inside diameter D) Aluminum drum with cast iron inset
Answer: <https://biology-forums.com/index.php?topic=399765>

Question 422

A proper working height is _
A) Above your head B) At knee height C) At waist height D) None of these
Answer: <https://biology-forums.com/index.php?topic=397505>

Question 423

In a servo brake, the secondary shoe provides approximately what percentage of the total stopping power?
A) 70 B) 75 C) 55 D) 30
Answer: <https://biology-forums.com/index.php?topic=399653>

Question 424

A reading of 432 shows on the face of the meter set to the millivolt scale. The reading means _____.
A) 4.32 volts B) 0.432 volt C) 4320 volts D) 43.2 volts
Answer: <https://biology-forums.com/index.php?topic=398369>

Question 425

Which type of manual or service information includes the flat rate time and the cost of parts?
A) Factory service manuals B) Component location guides
C) Parts and time guides D) Free internet sites
Answer: <https://biology-forums.com/index.php?topic=397762>

Question 426

Technician A says that generic scan tools must be able to read all generic OBD-II codes. Technician B says that all generic scan tools must be able to read manufacturer OBD-II trouble codes. Which technician is correct?
A) Technician A B) Technician B C) Both technicians D) Neither technician
Answer: <https://biology-forums.com/index.php?topic=399407>

Question 427

The tenth character represents the year of the vehicle. If the tenth character is a "Y" what year is the vehicle?
A) 2000 B) 2002 C) 2004 D) 1998
Answer: <https://biology-forums.com/index.php?topic=397784>

Question 428

If a 12-volt battery is connected to a series circuit with three resistors of 2 ohms, 4 ohms, and 6 ohms, how much current will flow through the circuit?
A) 1 amp B) 4 amp C) 2 amp D) 3 amp
Answer: <https://biology-forums.com/index.php?topic=398334>

Question 429

Hybrid vehicles can operate in the HOV lane on the interstate in California _____.
A) Even if occupied by only the driver B) Only with more than one occupant in the vehicle
Answer: <https://biology-forums.com/index.php?topic=399424>

Question 430

Which type of hybrid electric vehicle has idle stop operation?
A) Mild hybrids only B) Strong, mild, and medium hybrids
C) Strong hybrids only D) Medium hybrids only
Answer: <https://biology-forums.com/index.php?topic=399417>

Question 431

Valve spring inserts (shims) are designed to _____.
A) Adjust the correct valve spring installed height
B) Increase installed height of the valve
C) Decrease valve spring pressure to compensate for decreased installed height
D) Decrease installed height of the valve

Answer: <https://biology-forums.com/index.php?topic=398104>

Question 432

The rear brakes lock up during a regular brake application. Technician A says the metering valve could be the cause. Technician B says that stuck front disc brake calipers could be the cause. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399550>

Question 433

Engines are mounted to engine stands _____.

- A) Using bellhousing bolt holes B) Using holes drilled in the engine block
C) Either A or B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397633>

Question 434

To check for ripple voltage from the alternator, connect a digital multimeter (DMM) and select _____.

- A) DC volts B) AC volts C) AC amps D) DC amps

Answer: <https://biology-forums.com/index.php?topic=398653>

Question 435

When cleaning hydraulic brake parts, use _____.

- A) Clean brake fluid B) Denatured alcohol C) Either A or B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399536>

Question 436

What can be done to prevent air from getting trapped in the cooling system when the coolant is replaced?

- A) Pour the coolant into the radiator slowly.
B) Use a coolant exchange machine that draws a vacuum on the system.
C) Open the air bleeder valves while adding coolant.
D) Either B or C

Answer: <https://biology-forums.com/index.php?topic=397904>

Question 437

Which of these is a single-wire serial communications protocol, using one master control module and many slave modules?

- A) GMLAN B) Motorola Interconnect (MI)
C) Flexray BUS D) Media Oriented System Transport (MOST)

Answer: <https://biology-forums.com/index.php?topic=398546>

Question 438

The number of times a particular waveform repeats itself in a given amount of time (frequency) is measured in _____.

- A) Hertz B) Ersteads C) Coulombs D) Watts

Answer: <https://biology-forums.com/index.php?topic=398785>

Question 439

When heating a substance, latent heat is _____.

- A) the heat added that causes a change in temperature.
B) the amount of heat given off without changing state.
C) the heat added to cause a change of state while the temperature stays the same.
D) the number of calories needed to raise the temperature 1 degree Celsius.

Answer: <https://biology-forums.com/index.php?topic=398813>

Question 440

Double Cardan joints can function at a maximum angle of _____.

- A) 0 degrees B) 2 degrees
C) 10 degrees D) None of these are correct

Answer: <https://biology-forums.com/index.php?topic=400240>

Question 441

Heat always flows from a cooler object to a warmer object

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=397722>

Question 442

Pressurizing the automotive cooling system results in _____.

- A) Increased coolant warm up rate B) Reduced engine temperature
C) Increased coolant boiling point D) Reduced coolant boiling point

Answer: <https://biology-forums.com/index.php?topic=397926>

Question 443

A four-speed transmission is making a grinding noise only while shifting into second gear. This could be caused by _____.

- A) A damaged main drive gear B) A faulty 1-2 synchronizer sleeve
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400221>

Question 444

Ten of 30 vehicles checked during a safety inspection had at least one tire that was under inflated. This represents what percentage of the vehicles?

- A) 33% B) 43% C) 67% D) 25%

Answer: <https://biology-forums.com/index.php?topic=397726>

Question 445

Technician A says to always purchase replacement tires with the same or greater speed rating as when the vehicle was new. Technician B says to install the same type of tire (example: m+s) on all wheels. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399861>

Question 446

A brake warning lamp on the dash remains on whenever the ignition is on. If the wire to the pressure differential switch (usually a part of the combination valve or built into the master cylinder) is unplugged, the dash lamp goes out. Technician A says that this is an indication of a fault in the brake hydraulic system. Technician B says the problem is probably due to a stuck parking brake cable switch. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398690>

Question 447

Technician A says that lead-acid batteries may be disposed of in landfills. Technician B says that automotive batteries must be disposed of or recycled at dedicated facilities, such as a battery retail store. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397541>

Question 448

To safely install a power amplifier in-line capacitor, it must first be _____.

- A) Precharged B) Discharged C) Grounded D) Uncharged

Answer: <https://biology-forums.com/index.php?topic=398790>

Question 449

Rubber gloves should be worn whenever working on or near the high-voltage circuits or components of a hybrid electric vehicle. Technician says that the rubber gloves should be rated at 1000 volts or higher. Technician says that leather gloves should be worn over the high-voltage rubber gloves. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399433>

Question 450

A P0102 DTC is being discussed. Technician A says that a sensor circuit shorted-to-ground can be the cause. Technician B says that an open sensor voltage supply circuit could be the cause. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399108>

Question 451

Technician A says that a completely assembled electric motor is not likely to produce injury by electrical shock. Technician B says that turning off the ignition on an HEV causes the system main relay to disable the high voltage system. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399452>

Question 452

Which of these statements is true regarding apprenticeships?

- A) The apprentice gains on the job training while in school
B) The shop often provides tuition assistance
C) The apprentice works during the day and attends classes in the evening
D) All of these

Answer: <https://biology-forums.com/index.php?topic=397413>

Question 453

A module is also known as a _____.

- A) Terminator B) BUS C) Resistor pack D) Node

Answer: <https://biology-forums.com/index.php?topic=398529>

Question 454

Which is NOT true of rear disc brakes?

- A) Costly and complex
B) Require a more complex hydraulic system
C) Relatively poor parking brake performance
D) May use a one-piece rotor with parking brake drum

Answer: <https://biology-forums.com/index.php?topic=399706>

Question 455

Technician A says that converter speed ratio is a measure of coupling efficiency. Technician B says that converter speed ratio is calculated by dividing the speed of the turbine rotation by the speed of the pump rotation. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400334>

Question 456

Technician A says that CV joint grease with a gritty texture is contaminated. Technician B says that any visible crack in the CV boot indicates contaminated joint grease. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400276>

Question 457

Which pillar is nearest the front of the vehicle?

- A) C B) A C) D D) B

Answer: <https://biology-forums.com/index.php?topic=397352>

Question 458

What causes a variable ratio steering gear to be able to change the ratio as the steering wheel is turned?

- A) Using two or three different sector gears depending on design
B) Changing the number of teeth on the worm gear
C) Using a variable length pitman arm
D) Changing the length of the teeth on the sector gear

Answer: <https://biology-forums.com/index.php?topic=400041>

Question 459

Technician A says that before removing the engine, the battery should be disconnected. Technician B says to assist in reassembly, you should mark all unfamiliar hoses and wires in the engine compartment. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398053>

Question 460

When compared to a port fuel injected engine, a GDI engine will have a _____ compression ratio.

- A) Interrupted B) Lower C) Reversed D) Higher

Answer: <https://biology-forums.com/index.php?topic=399216>

Question 461

Typically, a vehicle height sensor mounts to the body of the vehicle and is connected to the _____ by a lever.

- A) Upper control arm B) Frame C) Lower control arm D) None of these

Answer: <https://biology-forums.com/index.php?topic=400025>

Question 462

The voltage regulator controls the current through the _____.

- A) Alternator field B) Rotor C) Alternator brushes D) All of these

Answer: <https://biology-forums.com/index.php?topic=398633>

Question 463

Technician A says that a vehicle will pull (or lead) to the side with the most camber (or least negative camber). Technician B says that a vehicle will pull (or lead) to the side with the most positive caster. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400149>

Question 464

The orifice tube divides the high side of the system from the low side.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=398816>

Question 465

Which statement is FALSE about high voltage wiring?

- A) Connects the controller to the motor/ generator
B) Is electrically grounded to the frame (body) of the vehicle
C) Connects the battery pack to the electric controller
D) Is controlled by a relay that opens if the ignition is off

Answer: <https://biology-forums.com/index.php?topic=399437>

Question 466

The warranty on catalytic converters is at least how long?

- A) 1 year B) 8 years C) 12 years D) 3 years

Answer: <https://biology-forums.com/index.php?topic=397379>

Question 467

Inductive ammeters work because of what principle?

- A) Electrostatic electricity
B) A magnetic field surrounds any wire carrying a current
C) Magic
D) A voltage drop as it flows through a conductor

Answer: <https://biology-forums.com/index.php?topic=398360>

Question 468

Which of these is safe for use in circuits with electronic components?

- A) Continuity tester B) LED test light C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398370>

Question 469

Two technicians are discussing the DC coupling setting on a DSO. Technician A says that the position allows both the DC and AC signals of the waveform to be displayed. Technician B says that this setting allows just the DC part of the waveform to be displayed. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398392>

Question 470

The red brake warning lamp is dimly lit on a RWD pickup with RWAL. Which is the most likely cause?

- A) Hydraulic system failure B) Parking brake circuit malfunction
C) ABS system fault D) None of these is correct

Answer: <https://biology-forums.com/index.php?topic=399822>

Question 471

Metric bolt grade is indicated by _____.

- A) Lines on the head B) Numbers on the head
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397565>

Question 472

Which position on the climate control panel should the driver select to avoid having the air-conditioning compressor turn on?

- A) Heat B) Defrost C) AC D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=398801>

Question 473

In a schematic, a wire is labelled "0.8 BLK/WHT." This wire is _____.

- A) White with a black stripe B) 0.8 mm diameter
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398463>

Question 474

A diode installed across a coil with the cathode toward the battery positive is called a(an) _____.

- A) Forward-bias diode B) SCR C) Clamping diode D) Transistor

Answer: <https://biology-forums.com/index.php?topic=398509>

Question 475

Technician A says that fuel filters are located in the fuel supply line. Technician B says that fuel filters are located in the fuel return line. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399162>

Question 476

All of these alternator components should be electrically tested, EXCEPT _____.

- A) End Frame B) Rotor C) Diodes D) Stator

Answer: <https://biology-forums.com/index.php?topic=398665>

Question 477

If lift and duration remain constant and the lobe center angle decreases, then _____.

- A) Valve overlap decreases B) Effective duration increases
C) Valve overlap increases D) Effective lift increases

Answer: <https://biology-forums.com/index.php?topic=398115>

Question 478

Technician A says primary vibration is created by the slight differences in the inertia of the pistons between top dead center and bottom dead center. Technician B says secondary vibration is a strong low-frequency vibration caused by the movement of the piston traveling up and down in the cylinder. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398194>

Question 479

Technician A says that battery load test loads the battery to one-half of its CCA rating. Technician B says that a good battery should be able to maintain higher than 9.6 volts for a 25 second test period. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398580>

Question 480

Which statement is true regarding the internal grids in automotive batteries?

- A) The grid is made mainly of lead
- B) The lead used to make the grid is enhanced with other elements for durability
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398563>

Question 481

Each cell of an automobile 12 volt battery can produce about _____ volts.

- A) 4.2
- B) 2.1
- C) 4
- D) 1.2

Answer: <https://biology-forums.com/index.php?topic=398561>

Question 482

A P0401 DTC (exhaust gas recirculation flow insufficient) is being discussed. Technician A says that a defective EGR valve could be the cause. Technician B says that clogged EGR passages could be the cause. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399308>

Question 483

Which of the following must always be replaced when a retrofit is performed?

- A) Expansion valve
- B) Condenser
- C) Compressor
- D) Refrigerant oil

Answer: <https://biology-forums.com/index.php?topic=398882>

Question 484

Asian red coolant is what type?

- A) PHOAT
- B) HOAT
- C) IAT
- D) OAT

Answer: <https://biology-forums.com/index.php?topic=397888>

Question 485

HC and CO are high and CO₂ and O₂ are low. This could be caused by a _____.

- A) Defective ignition component
- B) Lean mixture
- C) Rich mixture
- D) Clogged EGR passage

Answer: <https://biology-forums.com/index.php?topic=399263>

Question 486

Which of these is defined as the mass or weight of a substance in a given amount of space?

- A) Energy
- B) Volumetric efficiency
- C) Density
- D) Mass

Answer: <https://biology-forums.com/index.php?topic=397998>

Question 487

What type light may be used in more difficult to access areas?

- A) Incandescent
- B) LED
- C) Fluorescent
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=397628>

Question 488

Which variable resistor is most likely used for a dash light dimmer control?

- A) Piezoelectric
- B) Rheostat
- C) Potentiometer
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=398297>

Question 489

Electrical power is calculated by _____.

- A) Dividing voltage by current
- B) Multiplying volts by current
- C) Multiplying volts by ohms
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=398301>

Question 490

When should the engine oil be replaced?

- A) Every three months, regardless of miles
- B) According to the vehicle manufacturer's recommended interval based on time and mileage, whichever occurs first
- C) Every 3,000 miles regardless of time
- D) All of the above

Answer: <https://biology-forums.com/index.php?topic=397809>

Question 491

Technician A says that ABS brakes are designed to allow the front wheel to be steered during heavy braking. Technician B says that the ABS dash warning lamp is amber. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399795>

Question 492

Which is NOT part of a rear air conditioning system?

- A) Rear AC compressor
- B) Rear blower motor
- C) Rear heater core
- D) Rear evaporator

Answer: <https://biology-forums.com/index.php?topic=398832>

Question 493

A manual transmission is difficult to shift or get into gear, especially reverse. Technician A says that the clutch may not be fully releasing. Technician B says that too much clutch pedal freeplay could be the cause. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400185>

Question 494

Two technicians are discussing a dented driveshaft. Technician A says that it should be repaired. Technician B says it should be replaced. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400235>

Question 495

Most port fuel-injected engines operate on how much fuel pressure?

- A) 35 to 45 psi (240 to 310 kPa)
- B) 55 to 65 psi (380 to 450 kPa)
- C) 9 to 13 psi (62 to 90 kPa)
- D) 3 to 5 psi (21 to 35 kPa)

Answer: <https://biology-forums.com/index.php?topic=399232>

Question 496

Two technicians are discussing the front axle disconnect mechanism. Technician A says that the front axles are only disconnected if the vehicle is being towed. Technician B says that this unit is only used on all-wheel-drive vehicles. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400306>

Question 497

Technician A says that TOOT is the last adjustment made in a four wheel alignment. Technician B says that TOOT is a diagnostic angle that is not adjusted in a typical alignment. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400165>

Question 498

Wiring diagrams are usually found where?

- A) Lubrication guides
- B) Owners manuals
- C) Unit repair manuals
- D) Factory service manuals

Answer: <https://biology-forums.com/index.php?topic=397756>

Question 499

Technician A writes each diagnostic step on the work order using manufacturer-specific terminology. Technician B writes legibly so the service

consultant and customer can read the repair procedure performed. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397448>

Question 500

After rebuilding an engine, you need to have which of these near when the engine is first started?

- A) First Aid Kit B) Fire extinguisher C) Blanket D) Bucket of water

Answer: <https://biology-forums.com/index.php?topic=398266>

Question 501

What is the proper instrument for measuring runout?

- A) Outside micrometer B) Vernier caliper C) Dial indicator D) Inside micrometer

Answer: <https://biology-forums.com/index.php?topic=399910>

Question 502

Siamese cylinder bores are _____.

- A) Cast iron cylinders
B) Aluminum cylinders
C) Another name for cylinder liners
D) Cylinders that do not have a coolant passage between them

Answer: <https://biology-forums.com/index.php?topic=398161>

Question 503

A person who is job shadowing is not required to wear personal protective equipment.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=397410>

Question 504

The alternator output current is produced in the _____.

- A) Diodes B) Rotor C) Regulator D) Stator

Answer: <https://biology-forums.com/index.php?topic=398635>

Question 505

Which of the following is NOT a part of a brake caliper assembly?

- A) Anti-rattle spring or clip B) Dust boot
C) Cup seal D) Piston

Answer: <https://biology-forums.com/index.php?topic=399698>

Question 506

How many degrees of CRANKSHAFT rotation are required for a piston to travel from TDC to BDC and return to TDC?

- A) 360 B) 90 C) 720 D) 180

Answer: <https://biology-forums.com/index.php?topic=397850>

Question 507

Technician A says that containers for dirty shop rags should be made of metal. Technician B says that these containers should have a lid that stays closed. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397506>

Question 508

An element of the OBD II diagnostic management system which stores engine data during a DTC set is called _____.

- A) Memory account B) Vehicle in vehicle out
C) Misfire D) Freeze frame

Answer: <https://biology-forums.com/index.php?topic=399371>

Question 509

After the oil pan (sump) is removed, the technician should inspect _____.

- A) The oil pump and pickup screen

- B) To make certain that all rod and main bearings are numbered or marked
C) The valve lifters (tappets) for wear
D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=398045>

Question 510

When using a torque limiting adapter with an air impact wrench, what is the suggested maximum air pressure for the air tool?

- A) 90 psi B) 30 psi C) 125 psi D) None of these

Answer: <https://biology-forums.com/index.php?topic=399920>

Question 511

Two technicians are discussing disc brake rotor service. Technician A says that the inner races (bearing cups) should be removed from the rotor before it is mounted on the lathe. Technician B says that a non-directional finish on the rotor surfaces can be obtained by using sandpaper. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399760>

Question 512

Which of the following cannot be measured using a straightedge and a feeler gauge?

- A) Cylinder head flatness B) Straightness of the main bearing bores
C) Block deck flatness D) Straightness of the cylinder bore

Answer: <https://biology-forums.com/index.php?topic=397671>

Question 513

Waste spark ignition is being discussed. Technician A says it requires more voltage to fire the compression cylinder than the companion cylinder. Technician B says waste spark systems that use compression sensing electronics do not require a camshaft sensor for engine position. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398988>

Question 514

Technician A says that low pressure smoke installed in the fuel system can be used to check for leaks. Technician B says that nitrogen under low pressure can be installed in the fuel system to check for leaks. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399288>

Question 515

A telescopic gauge can be used to measure _____.

- A) Camshaft bearing out of round B) Cylinder bore taper
C) Housing bore out of round D) Any of these

Answer: <https://biology-forums.com/index.php?topic=397682>

Question 516

What happens to the voltage measured at the ECT sensor when the thermostat opens?

- A) Increases about 1 volt B) Decreases about 1 volt
C) Decreases slightly D) Increases slightly

Answer: <https://biology-forums.com/index.php?topic=399042>

Question 517

A distributor ignition (DI) system has a Hall-Effect type pickup trigger. Technician A says that this type of pickup may be tested with an ohmmeter. Technician B says that this type of pickup produces an analog voltage signal. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399007>

Question 518

SAE flare fittings used on hydraulic brake systems must _____.

- A) Have a 45-degree taper on the male part of the fitting
B) Have a 20-degree taper on the male and female parts of the fitting
C) Be single flared

D) Have no taper on the female part of the fitting

Answer: <https://biology-forums.com/index.php?topic=399589>

Question 519

What can be used to check that the heads are at the correct angle for the intake manifold on a V-type engine?

A) An angle gauge B) A dial indicator C) A tape measure D) A metal rule

Answer: <https://biology-forums.com/index.php?topic=398223>

Question 520

Coolant is water and ..

A) Glycerin B) Methanol C) Kerosene D) Ethylene glycol

Answer: <https://biology-forums.com/index.php?topic=397885>

Question 521

A fuel pump is being replaced for the third time. Technician A says that the gasoline could be contaminated. Technician B says that wiring to the pump could be corroded. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399155>

Question 522

Which alignment angle is adjustable on all vehicles?

A) Toe B) Caster C) Camber D) SAI

Answer: <https://biology-forums.com/index.php?topic=400119>

Question 523

The fact that voltage can be created by exerting force on a crystal is used for which type of sensor?

A) Knock sensor (KS) B) Throttle position (TPS)
C) Manifold absolute pressure (MAP) D) Barometric sensor (BARO)

Answer: <https://biology-forums.com/index.php?topic=398279>

Question 524

Which tool has a replaceable cutting edge?

A) Utility knife B) Side cut pliers C) Tin snips D) Aviation snips

Answer: <https://biology-forums.com/index.php?topic=397590>

Question 525

Technician A says that gasoline engines are internal combustion engines. Technician B says that diesel engines are internal combustion engines. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397355>

Question 526

A magnetic field is created in the _____ in an alternator.

A) Diodes B) Stator C) Rotor D) Frame

Answer: <https://biology-forums.com/index.php?topic=398632>

Question 527

Which is true of a fixed caliper?

A) Inexpensive to manufacture B) Compact in size
C) Simple construction D) Flexes less than other designs

Answer: <https://biology-forums.com/index.php?topic=399705>

Question 528

A light film of oil is observed on the upper area of a shock absorber. Technician A says that this condition should be considered normal. Technician B says that a rod seal may bleed fluid during cold weather, causing the oil film. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399955>

Question 529

All of the following statements are correct EXCEPT _____

- A) Fuel cools the injector.
- B) Dirt and water are more likely to contaminate the injectors if the fuel level is low.
- C) Fuel makes contact with the injector windings.
- D) O-rings seal the injector to keep fuel away from the windings.

Answer: <https://biology-forums.com/index.php?topic=399177>

Question 530

Technician A says that PAFC fuel cells can use hydrogen as fuel. Technician B says that PEM fuel cells can use hydrogen as fuel. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399477>

Question 531

Using an ethanol-enhanced or reformulated gasoline can result in reduced fuel economy.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=398921>

Question 532

Head gasket installation is being discussed. Technician A says that the surface finish of the cylinder head or block deck is very important for proper sealing to occur. Technician B says that if "front" is marked on a head gasket, the mark should be installed near the accessory drive belt end of the engine. Who is right?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398221>

Question 533

If running late, the wise technician should _____.

- A) Stop and eat a good breakfast before going to the shop
- B) Call the shop and take the day off
- C) Call the shop and let them know you will be late
- D) Speed up

Answer: <https://biology-forums.com/index.php?topic=397434>

Question 534

What other name is used to describe an electronic stability control (ESC) system?

- A) Vehicle Dynamic Control (VDC)
- B) Vehicle Stability Assist (VSA)
- C) Electronic Stability Program (ESP)
- D) Any of the above

Answer: <https://biology-forums.com/index.php?topic=399832>

Question 535

What type of service valves are used with R-134a?

- A) Schrader valves
- B) Gate valves
- C) Saddle valves
- D) Quick disconnect valves

Answer: <https://biology-forums.com/index.php?topic=398870>

Question 536

Which of these is NOT a job related to the automotive industry?

- A) Insurance adjuster
- B) Technical writer
- C) Salesperson
- D) All of these are jobs in the automotive industry

Answer: <https://biology-forums.com/index.php?topic=397396>

Question 537

The passenger side is called the _____.

- A) Right side
- B) Left side
- C) Either right or left side, depending on how the vehicle is viewed
- D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=397781>

Question 538

Technician A says that torsion bars are welded in place and cannot be adjusted. Technician B says that torsion bars are adjusted by using a wrench to turn the torsion bar clockwise. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399963>

Question 539

All power steering pumps have integral reservoirs.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=400098>

Question 540

The type of plastic can be determined by using a _____ test.

- A) Color B) Weight C) Burn D) Depression

Answer: <https://biology-forums.com/index.php?topic=397725>

Question 541

PHOAT coolant is what color?

- A) Orange B) Dark Green C) Blue D) Red

Answer: <https://biology-forums.com/index.php?topic=397890>

Question 542

Who typically handles all the paperwork required to operate the service facility?

- A) Service advisor B) Shop foreman C) Service manager D) None of these

Answer: <https://biology-forums.com/index.php?topic=397394>

Question 543

All these are returnless fuel systems EXCEPT _____.

- A) Mechanical returnless fuel system B) Demand delivery system
C) Electronic returnless fuel system D) All of these are types of returnless systems.

Answer: <https://biology-forums.com/index.php?topic=399195>

Question 544

The cabin filter can be accessed from _____.

- A) Under the hood on some vehicles B) Under the dash on some vehicles
C) Under the vehicle on some vehicles D) Either A or B

Answer: <https://biology-forums.com/index.php?topic=397811>

Question 545

The quick-take-up valve controls _____.

- A) Fluid flow between the primary and secondary high-pressure chambers
B) Fluid flow to and from the primary low-pressure chamber
C) Fluid flow between the primary low and high-pressure chambers
D) Fluid flow between the reservoir and the secondary low-pressure chamber

Answer: <https://biology-forums.com/index.php?topic=399548>

Question 546

Technician A says the held member of a planetary gearset is called the drive member. Technician B says the held member of a planetary gearset is called the reaction member. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400317>

Question 547

A rain-sense wiper system uses a rain sensor that is usually mounted _____.

- A) Behind the grille B) Inside of the windshield at the top
C) Outside of the windshield at the top D) On the roof

Answer: <https://biology-forums.com/index.php?topic=398715>

Question 548

For an electrical device to operate, it must have _____.

- A) Power and a ground
- B) A relay to transfer the current to the device
- C) A switch and a fuse
- D) A ground and a fusible link

Answer: <https://biology-forums.com/index.php?topic=398461>

Question 549

How many watts are consumed by a starter motor if it draws 150 amperes at 10 volts?

- A) 150
- B) 1500
- C) 15
- D) 15000

Answer: <https://biology-forums.com/index.php?topic=398306>

Question 550

What should the technician do when replacing stabilizer bar links?

- A) The stabilizer bar should be removed from the vehicle before replacing the links
- B) The links can be replaced individually, yet the manufacturer often recommends that the links at both ends be replaced together
- C) The stabilizer bar must be compressed using a special tool before removing or installing stabilizer bar links
- D) Both A and C are correct

Answer: <https://biology-forums.com/index.php?topic=399957>

Question 551

The higher the AWG number, _____.

- A) The smaller the wire diameter
- B) The larger the wire diameter
- C) The more strands in the conductor core
- D) The thicker the insulation

Answer: <https://biology-forums.com/index.php?topic=398407>

Question 552

Which of the following can result from evaporator freeze-up?

- A) The air-conditioning system produces little or no cooling.
- B) The refrigerant may not properly evaporate.
- C) Air is not drawn over the fins
- D) All of the above.

Answer: <https://biology-forums.com/index.php?topic=398806>

Question 553

In a parallel circuit _____.

- A) There is more than one path for current flow
- B) Current flow through each branch of the circuit depends on the resistance present in that branch
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398349>

Question 554

For an employer/employee relationship to exist, which of these must be true?

- A) The employer controls the times and location the employee is to report to work
- B) The employer directs the employee to report to work and assigns work responsibilities
- C) Both A and B must be true for an employer/employee relationship to exist
- D) Either A or B must be true, but not necessarily both

Answer: <https://biology-forums.com/index.php?topic=397426>

Question 555

Which component is NOT needed in a typical overhead cam engine?

- A) Valve spring
- B) Camshaft
- C) Rocker arm
- D) Push rod

Answer: <https://biology-forums.com/index.php?topic=397841>

Question 556

A spark tester should be used to check for spark because _____.

- A) It is connected to the CKP sensor to check its output
- B) It can detect a cracked spark plug

C) It can detect the gap of the spark plugs D) A spark tester requires at least 25,000 volts to fire

Answer: <https://biology-forums.com/index.php?topic=398993>

Question 557

Technician A says that fuel cells produce large amounts of heat. Technician B says that fuel cell energy production creates "low grade" heat. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399487>

Question 558

Which of these can be used to measure the frequency (Hz) output of the sensor and compare the reading with specifications?

A) Logic Probe B) Megohmmeter
C) High impedance test light D) DMM (digital multimeter)

Answer: <https://biology-forums.com/index.php?topic=399115>

Question 559

If the engine is not running, technician A says that the high-voltage circuits are depowered. Technician B says that all high voltage wiring is orange in color. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399436>

Question 560

Electricity moving through a conductor produces a magnetic field. This principle is used in which of the following?

A) Starter motor B) Relay C) Ignition coil D) All of these

Answer: <https://biology-forums.com/index.php?topic=398296>

Question 561

Which lining does most of the braking on a leading/trailing brake?

A) Trailing (rearward facing) B) Leading (forward facing)
C) Both contribute equally D) Depends on the speed of the vehicle

Answer: <https://biology-forums.com/index.php?topic=399639>

Question 562

A wide band oxygen sensor can be made using what design?

A) Cup and thimble B) Finger and thimble
C) Cup and planar D) Dual cell and single cell

Answer: <https://biology-forums.com/index.php?topic=399138>

Question 563

An intake manifold gasket has been replaced due to a vacuum leak. Which of the following steps uses a scan tool to complete the job?

A) Idle relearn B) Air cleaner check
C) Torquing the manifold bolts D) Refilling the cooling system

Answer: <https://biology-forums.com/index.php?topic=398032>

Question 564

After using a vise _____.

A) Close the vise jaws B) Make sure the handle is in the vertical position
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397638>

Question 565

The use of a knurling tool is being described. After the knurling tool displaces the metal inside the guide, a _____ is run through the guide to produce a restored, serviceable valve guide.

A) Reamer B) File C) Ball gauge D) Drill bit

Answer: <https://biology-forums.com/index.php?topic=398096>

Question 566

The VIN identification for model year follows a pattern that repeats every _____ years

A) 30 B) 12 C) 24 D) None of these

Answer: <https://biology-forums.com/index.php?topic=397808>

Question 567

Which energy sources are currently being used to help reduce the use of fossil fuels?

A) Hydrogen B) Wind power C) Hydroelectric power D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=399470>

Question 568

All these actions involve verifying the problem EXCEPT _____.

A) Check the MIL
B) Look for TSB's.
C) Determine the temperature the when problem occurred.
D) Look for aftermarket parts

Answer: <https://biology-forums.com/index.php?topic=399389>

Question 569

Which of the following is NOT considered an input for the suspension ECM?

A) Electric motor B) Switch C) Sensor D) Photocell

Answer: <https://biology-forums.com/index.php?topic=400022>

Question 570

Why should red assembly lube be avoided?

A) Clogs filters B) Too slippery
C) Can harm friction disks D) Looks like an ATF leak when it melts

Answer: <https://biology-forums.com/index.php?topic=400386>

Question 571

Electronic systems can monitor or control _____.

A) Suspension control B) Tire pressure C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397365>

Question 572

All of the following are methods of piston to rod attachment EXCEPT _____.

A) Full floating B) Press fit to rod C) Woodruff key D) Free floating

Answer: <https://biology-forums.com/index.php?topic=398152>

Question 573

An EGR valve that is partially stuck open would most likely cause what condition?

A) Pinging B) Excessive NOx exhaust emissions
C) Rough idle D) Missing at highway speed

Answer: <https://biology-forums.com/index.php?topic=399306>

Question 574

A voltmeter was used to check the coolant and a reading of 0.2 volt with the engine off was measured. A reading of 0.8 volt was measured with the engine running and all electrical accessories turned on. Technician A says that the coolant should be flushed to solve the galvanic activity. Technician B says that the ground wires and connections should be inspected and repaired to solve the electrolysis problem. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397894>

Question 575

When lowering a vehicle, _____.

A) First engage the safety locks
B) Lower the vehicle slowly and make sure it remains stable
C) Both A and B
D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397661>

Question 576

The phrase written on the work order, "drove the vehicle to confirm the customer's complaint" falls under which section of the work order?

- A) Cause B) Correction C) Concern D) All of these

Answer: <https://biology-forums.com/index.php?topic=397451>

Question 577

Which device controls coolant flow to the radiator?

- A) Thermostat B) Vacuum solenoid C) Water pump D) Heater valve

Answer: <https://biology-forums.com/index.php?topic=397357>

Question 578

Positive camber means _____.

- A) The top of the tire is tilted inward at the top
B) The fronts of the tires on the same axle are closer together at the front than at the rear
C) The top of the tire is tilted outward at the top

Answer: <https://biology-forums.com/index.php?topic=400118>

Question 579

Hardware store nongraded bolts are suitable for use on suspension components.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=397564>

Question 580

Technician A says that using lower octane fuel in vehicles designed for premium fuel will cause serious engine damage. Technician B says that some octane boosters will cause discoloration of the porcelain on the spark plug tip. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398903>

Question 581

The third terminal of a potentiometer is attached to a movable contact that slides across the resistor to vary _____.

- A) Thermistor B) Thyristor C) Potentiometer D) Resistance

Answer: <https://biology-forums.com/index.php?topic=399076>

Question 582

Electric adjustable pedals operate _____.

- A) Accelerator pedal only B) Parking brake only
C) Brake pedal only D) Both the accelerator and brake pedal

Answer: <https://biology-forums.com/index.php?topic=399496>

Question 583

Technician A says that the ECT and IAT sensors can be tested visually, as well as by using a digital multimeter or a scan tool. Technician B says that the ECT sensor is a high-authority sensor at engine startup and is used for open-loop control, as well as idle speed. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399051>

Question 584

High resistance in a circuit _____.

- A) May cause a fuse to blow B) Reduces current flow through the circuit
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398319>

Question 585

Two technicians are discussing oil leaks. Technician A says that an oil leak can be found using a fluorescent dye in the oil with a black light to check for leaks. Technician B says a white spray powder can be used to locate oil leaks. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398004>

Question 586

Which of these is a primary cause of secondary vibration?

- A) Harmonic balancer B) Pistons
C) Connecting rod big ends D) Flexplate

Answer: <https://biology-forums.com/index.php?topic=398197>

Question 587

Which grade of diesel fuel is best suited for cold weather operation?

- A) Grade #3 B) Grade #1 C) Grade #2 D) None of these

Answer: <https://biology-forums.com/index.php?topic=398952>

Question 588

Which type of fluid is typically used in a hydraulic clutch system?

- A) Automatic transmission fluid B) Engine oil
C) Power steering fluid D) Brake fluid

Answer: <https://biology-forums.com/index.php?topic=400201>

Question 589

Technician A says a fully engaged clutch friction disc must slip slightly to absorb engine vibrations. Technician B says the clutch friction disc is designed to slip slightly during engagement and disengagement to provide smooth operation. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400205>

Question 590

What routine service procedure could result in lower fuel economy, which the owner may notice?

- A) Using the wrong viscosity engine oil B) Replacing tires
C) Replacing the air filter D) Either A or B

Answer: <https://biology-forums.com/index.php?topic=399438>

Question 591

Rear-disc auxiliary drum parking brakes _____.

- A) May be adjusted through an opening in the drum B) Use a dual-servo friction assembly
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399746>

Question 592

Which ASE certification test would cover experience in reading an electrical schematic?

- A) A8 B) A7
C) A6 D) Any of these is possible

Answer: <https://biology-forums.com/index.php?topic=397458>

Question 593

The chemical energy in fuel is converted to heat by the burning of the fuel at a controlled rate. This process is called _____.

- A) Combustion B) Torque C) Power D) Consumption

Answer: <https://biology-forums.com/index.php?topic=397856>

Question 594

A vehicle runs fine when in reverse yet has a rough idle and stalling when put in drive. This could be caused by _____.

- A) Excessive fuel pressure B) A cracked air inlet hose
C) A missing spark plug D) Incorrect idle speed

Answer: <https://biology-forums.com/index.php?topic=399118>

Question 595

A P0132 DTC is being discussed. Technician A says that a defective HO2S could be the cause. Technician B says that an HO2S signal wire shorted-to-ground could be the cause. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399134>

Question 596

The electronic stability control (ESC) system requires that the vehicle be equipped with what type of brake system?

- A) Front disc with rear drum brakes B) Four-wheel disc brakes
C) Four channel ABS D) Three channel ABS

Answer: <https://biology-forums.com/index.php?topic=399829>

Question 597

Technician A says that a power-assisted brake system reduces stopping distances compared to a nonpower-assisted brake system. Technician B says that the power-assisted brake system reduces the force that the driver must exert on the brake pedal. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399491>

Question 598

The use of a coolant recovery machine is helpful in preventing _____ from entering the cooling system.

- A) Hose residue B) Oil C) Excessive vibrations D) Air

Answer: <https://biology-forums.com/index.php?topic=397923>

Question 599

Technician A says that electronic diagrams can be printed out so the pages of the printed service manual don't get dirty. Technician B says that components on diagrams are often labelled with numbers or letters. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397744>

Question 600

Metric nut strength is indicated by _____.

- A) Lines B) Dimples C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397566>

Question 601

How many ignition coils should you expect to find on a V-6 engine using a waste spark system?

- A) Six B) Three C) Two D) One

Answer: <https://biology-forums.com/index.php?topic=398982>

Question 602

Technician A says that a MAF sensor is a high-authority sensor and is responsible for determining the fuel needs of the engine based on the measured amount of air entering the engine. Technician B says that a cold wire MAF sensor uses the electronics in the sensor itself to heat a wire 20°C below the temperature of the air entering the engine. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399111>

Question 603

The low oil pressure warning light usually comes on _____.

- A) When the oil filter anti-drain back valve opens
B) When oil pressure drops dangerously low (4 to 7 psi)
C) When an oil change is required
D) When the oil filter bypass valve opens

Answer: <https://biology-forums.com/index.php?topic=398012>

Question 604

Technician A says that a constant rate spring has the same deflection rate throughout its entire range of compression. Technician B says that some coil springs have different diameters at the top and bottom of the spring. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399945>

Question 605

Two technicians are discussing torsion bars. Technician A says that many torsion bars are adjustable to allow for ride height adjustment. Technician B says that torsion bars are usually marked left and right and should not be switched side to side. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399923>

Question 606

The FMVSS 138 law requires that the driver be notified if the tire inflation pressure drops how much?

A) 20% B) 15% C) 25% D) 30%

Answer: <https://biology-forums.com/index.php?topic=399879>

Question 607

In what year was the self-starter introduced?

A) 1900 B) 1908 C) 1912 D) 1902

Answer: <https://biology-forums.com/index.php?topic=397358>

Question 608

Technician A says a thermostat which opens too soon can cause poor heater operation. Technician B says low coolant level can cause poor heater operation. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398854>

Question 609

Which event causes the capacitor to retain a voltage potential?

A) Open circuit B) Closed circuit C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398483>

Question 610

Caution should be used when performing a stall test because _____.

A) It puts a strain on the engine B) It could increase the temperature of the ATF
C) It could be hazardous if the brakes fail D) All of these

Answer: <https://biology-forums.com/index.php?topic=400368>

Question 611

Most air-operated grease guns operate with how much air pressure?

A) 30 psi B) 120 psi C) 90 psi D) None of these

Answer: <https://biology-forums.com/index.php?topic=397625>

Question 612

Technician A says that a symptom chart lists symptoms and possible causes. Technician B says that troubleshooting flowcharts should be followed closely, step by step. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397771>

Question 613

A 10 amp fuse is normally what color?

A) Blue B) Yellow C) Green D) Red

Answer: <https://biology-forums.com/index.php?topic=398447>

Question 614

Two technicians are discussing the machining of brake drums. Technician A says that most brake drums cannot be machined more than 0.060 in. oversize. Technician B says that brake drums on a common axle should be machined to within 0.010 in. of each other. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399759>

Question 615

Drive axle shafts are also called _____.

A) Driveshafts B) Double-Cardan shafts
C) Propeller shafts D) Half shafts

Answer: <https://biology-forums.com/index.php?topic=400234>

Question 616

A diesel engine should produce at least _____ psi of compression pressure and all cylinders should be within 50 psi of each other.
A) 250 B) 300 C) 450 D) 150

Answer: <https://biology-forums.com/index.php?topic=397874>

Question 617

Unlike magnetic poles _____ and like magnetic poles _____.
A) Repel/ repel B) Repel/ attract C) Attract/ repel D) Attract/ attract

Answer: <https://biology-forums.com/index.php?topic=398488>

Question 618

The SAI system is used to reduce which exhaust emission?
A) HC B) CO C) NOx D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=399324>

Question 619

To cause inflation, the closing of the _____ is required to provide the power-side voltage to the inflator module.
A) Seat Position sensor (SPS) B) Electronic Frontal Sensor (EFS)

C) Forward discriminating sensor D) Arming sensor

Answer: <https://biology-forums.com/index.php?topic=398767>

Question 620

Where in the air conditioning system is the refrigerant a low pressure gas?
A) Evaporator inlet B) Condenser outlet C) Evaporator outlet D) Condenser inlet

Answer: <https://biology-forums.com/index.php?topic=398794>

Question 621

Use the following information to answer the question:

Specifications: Min. Preferred Max.

Camber (deg.) -1/4 +1/2 1

Caster (deg.) 0 +2 +4

Toe (inch) -1/16 1/16 3/16

Results: Left F Right F

Camber (deg) -0.3 -0.1

Caster (deg) 3.6 1.8

Toe (inch) -1/16 +1/32

The vehicle above will _____.

A) pull toward the left B) lead to the left slightly

C) wander D) pull toward the right

Answer: <https://biology-forums.com/index.php?topic=400155>

Question 622

Which angle, if unequal from side to side, is most likely to cause a pull or drift?

A) Toe B) Camber C) TOOT D) None of these

Answer: <https://biology-forums.com/index.php?topic=400137>

Question 623

Technician A says a short input shaft needs a pilot bearing for support. Technician B says pilot bushings are usually pressed into the center of the crankshaft flange. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400195>

Question 624

A heated zirconia oxygen sensor will have how many wires?

A) 2 B) 3 C) 4 D) Either B or C

Answer: <https://biology-forums.com/index.php?topic=399130>

Question 625

Where is connector C250 located?

- A) In the passenger compartment B) Under the hood
C) In the trunk D) Under the dash

Answer: <https://biology-forums.com/index.php?topic=398453>

Question 626

Technician A says that the ignition timing cannot be adjusted on waste spark ignition systems. Technician B says that most waste spark systems use a crankshaft position sensor. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398984>

Question 627

Engine oil passages in an engine block are called _____.

- A) Runners B) Galleries C) Holes D) Pathways

Answer: <https://biology-forums.com/index.php?topic=397954>

Question 628

Aftermarket service information is available in what format?

- A) Internet B) CDs or DVDs
C) Manuals D) All of these are possible source formats

Answer: <https://biology-forums.com/index.php?topic=397759>

Question 629

P-type material is silicone doped with which of these?

- A) Boron B) Indium C) Either A or B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398522>

Question 630

A dry sump system is used in some high-performance vehicles because _____.

- A) It allows the engine to develop more power
B) It allows for a greater oil capacity so that oil temperatures can be controlled
C) It allows the vehicle to corner or brake for long periods of time
D) All of the above

Answer: <https://biology-forums.com/index.php?topic=397955>

Question 631

Technician A says a 4WD transfer case is an auxiliary 2-speed transmission. Technician B says a planetary gearset provides a low and high range. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400310>

Question 632

Which type socket is more likely to round the edges of a fastener?

- A) 6 point B) 12 point C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397598>

Question 633

What are the two methods of sensing incoming engine air flow?

- A) Mass air flow and air intake B) EGR and positive crankcase ventilation
C) Speed density and mass air flow D) Speed density and throttle position

Answer: <https://biology-forums.com/index.php?topic=399112>

Question 634

What component(s) is(are) considered to be unsprung weight?

- A) Frame B) Body C) Wheels and tires D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=399924>

Question 635

Which component transfers vehicle weight to the wheels?

- A) Struts B) Shocks C) Springs D) Axles

Answer: <https://biology-forums.com/index.php?topic=399940>

Question 636

Technician A says that the wheel brake farthest from the master cylinder is generally bled first. Technician B says that the wheel brake closest to the master cylinder is generally bled first. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399608>

Question 637

Which of these brake fluids has the highest boiling point?

- A) DOT 4 B) DOT 5.1 C) DOT 3 D) None of these

Answer: <https://biology-forums.com/index.php?topic=397825>

Question 638

Technician A says that calibration codes may be located on the PCM housing. Technician B says that some calibration codes must be accessed by a scan tool. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397801>

Question 639

The fuel pump inside the fuel tank on a vehicle equipped with gasoline direct injection produces about what pressure?

- A) 20 to 40 PSI B) 50 to 60 PSI C) 10 to 20 PSI D) 5 to 10 PSI

Answer: <https://biology-forums.com/index.php?topic=399201>

Question 640

Why is thick wire used for the battery-starter circuit?

- A) To carry high amperage current B) To carry high voltage
C) Both of these D) Neither of these

Answer: <https://biology-forums.com/index.php?topic=398444>

Question 641

The master cylinder body is NOT equipped with a _____.

- A) Replenishing port B) Cylinder bore C) Compensating port D) Transfer port

Answer: <https://biology-forums.com/index.php?topic=399545>

Question 642

What is not included with a loaded caliper?

- A) New brake hardware B) A new piston (if needed)
C) A replacement rotor D) New pads

Answer: <https://biology-forums.com/index.php?topic=399720>

Question 643

High resistance in a circuit can cause _____.

- A) Slow motor operation B) Clicking of relays or solenoids
C) Dim lights D) Any of the above

Answer: <https://biology-forums.com/index.php?topic=398307>

Question 644

Technician A says installation of aftermarket air shocks may cause height-sensitive proportioning valves to function improperly. Technician B says vehicles equipped with ABS systems using electronic brake proportioning (EBP) do not need proportioning valves. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399569>

Question 645

Cleaning chemicals are usually either a caustic material or an acid material. Which of the following statements is true?

- A) An acid is lower than 7 and a caustic is higher than 7 on pH scale
- B) An acid is higher than 7 and a caustic is lower than 7 on pH scale
- C) Pure water is a 1 and a strong acid is a 14 on the pH scale
- D) Both caustics and acids have a pH of 7 if rated according to distilled water

Answer: <https://biology-forums.com/index.php?topic=398065>

Question 646

Which of the following terms may be used to describe the center link?

- A) Relay rod
- B) Drag link
- C) Connecting link
- D) All of these are correct

Answer: <https://biology-forums.com/index.php?topic=400073>

Question 647

The brake pedal assembly uses a mechanical lever to _____.

- A) Increase the distance the brake pedal needs to be depressed by the driver
- B) Decrease the driver's force on the brake pedal applied to the master cylinder
- C) Allow for clearance between the brake pedal and the floor when the brakes are applied
- D) Increase the driver's force on the brake pedal applied to the master cylinder

Answer: <https://biology-forums.com/index.php?topic=399508>

Question 648

Each automotive battery cell has an electrical potential of how many volts?

- A) 12.6 V
- B) 2.1 V
- C) 1.5 V
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=398566>

Question 649

Technician A says that drum brakes work with brake shoes. Technician B says that drum brakes work with brake pads. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397351>

Question 650

Which computer component generates a steady stream of one-bit long voltage pulses?

- A) Capacitor
- B) Volatile memory
- C) Clock generator
- D) Central processing unit

Answer: <https://biology-forums.com/index.php?topic=399029>

Question 651

Thick wires have a _____ AWG rating than thin wires.

- A) Lower
- B) Higher

Answer: <https://biology-forums.com/index.php?topic=398421>

Question 652

Which of these tools is used most often by automotive service technicians?

- A) Pliers
- B) Hammer
- C) Wrench
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=397591>

Question 653

Stranded copper wire is used in most automotive electrical circuits because it _____.

- A) Bends more easily than solid wire
- B) Is an inexpensive but excellent conductor
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398417>

Question 654

Technician A says heat checking can be caused by numerous panic stops in rapid succession. Technician B says it can be caused by "riding" the brake pedal. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399761>

Question 655

When one synchronizer is shifted into gear, the movement of the other shifter forks is blocked by the _____.

- A) interlocks B) detents C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400223>

Question 656

Technician A says that an electric parking brake (EPB) uses an electric motor to pull on the parking brake cable. Technician B says that some electric parking brake systems use a computer controlled motor attached to the caliper. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399737>

Question 657

One type of injection system does that does not hold pressure when turned off is called a non-checking system. This is found on _____.

- A) Some General Motors TBI systems B) All TBI systems
C) Multiport injection systems D) None of these

Answer: <https://biology-forums.com/index.php?topic=399192>

Question 658

In some hybrid electric vehicles, the wide band oxygen sensor can cause the PCM to enter closed loop _____.

- A) By the time the vehicle reaches 60 mph B) Within 10 seconds of engine (ICE) start-up
C) As soon as the engine (ICE) starts D) Within 2 minutes

Answer: <https://biology-forums.com/index.php?topic=399145>

Question 659

All of the following information is listed on the MSDS EXCEPT _____.

- A) First aid information B) Expiration date
C) Physical properties of the chemical D) Health hazards

Answer: <https://biology-forums.com/index.php?topic=397533>

Question 660

A technician is performing a wire repair on a circuit under the hood of a vehicle. Technician A says to use solder and adhesive-lined heat shrink tubing or a crimp and seal connector. Technician B says to solder and use electrical tape. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398412>

Question 661

A micrometer can be used to measure to an accuracy of _____.

- A) 0.0001 in B) 0.01 in C) 0.001 in D) None of these

Answer: <https://biology-forums.com/index.php?topic=397690>

Question 662

Which switching device uses a shutter blade and sensor to detect a magnetic field?

- A) Optical sensor B) Pickup coil C) Hall-effect switch D) Ignition coil

Answer: <https://biology-forums.com/index.php?topic=398978>

Question 663

A good wheel speed sensor should produce at least _____ with the wheel turning.

- A) 0.1 volt DC B) 1 volt DC C) 1 volt AC D) 0.1 volt AC

Answer: <https://biology-forums.com/index.php?topic=399828>

Question 664

Technician A says that the transmission hydraulic pump operates only when the vehicle is in motion. Technician B says that the transmission hydraulic pump operates when the engine is running. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400353>

Question 665

A residual check valve is used to _____.

- A) Prevent rear wheel lockup during hard braking B) Speed brake release to reduce brake wear
C) Maintain a slight pressure on the hydraulic system D) Prevent front wheel lockup during hard braking

Answer: <https://biology-forums.com/index.php?topic=399553>

Question 666

Which exhaust gas reading indicates a good catalytic converter?

- A) O₂ is zero B) CO is zero C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399345>

Question 667

Technician A says that magnetic lines of force can be seen by placing iron filings on a piece of paper and then holding them over a magnet. Technician B says that the effects of magnetic lines of force can be seen using a compass. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398487>

Question 668

Which liquid fuel could be used to directly power a fuel cell?

- A) Biodiesel B) Ethanol C) Unleaded gasoline D) Methanol

Answer: <https://biology-forums.com/index.php?topic=399464>

Question 669

Technician A says that a defective crankshaft position sensor can cause a no-spark condition. Technician B says that a faulty ignition control module can cause a no-spark condition. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399005>

Question 670

Technician A says that fluid level concerns rarely contribute to automatic transmission concerns. Technician B says that dark, burnt ATF means the PCM is improperly commanding shift activity. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400371>

Question 671

There are _____ classes of fire extinguishers.

- A) 3 B) 6 C) 4 D) 8

Answer: <https://biology-forums.com/index.php?topic=397513>

Question 672

When testing an ECT sensor on a vehicle, a digital multimeter can be used and the signal wires back probed. What setting should the technician use to test the sensor?

- A) Hz (hertz) B) DC volts C) AC volts D) Ohms

Answer: <https://biology-forums.com/index.php?topic=399044>

Question 673

A data line has been diagnosed as being shorted to ground. Which of these would be the next step in diagnosing this problem?

- A) Unplug modules one at a time and re-test the data line
B) Replace the alternator
C) Disconnect the battery and then test the data line
D) Replace the BCM

Answer: <https://biology-forums.com/index.php?topic=398549>

Question 674

The red brake warning lamp is on and the amber ABS lamp is off. Technician A says that a fault is possible in the base brake system. Technician B says that the red brake warning lamp can be turned on by a low brake fluid level in the master cylinder. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399809>

Question 675

High pressure hoses have to be used on the high pressure side of the power steering system because pressures can reach as high as _____.

- A) 1500 psi B) 2500 psi C) 750 psi D) 200 psi

Answer: <https://biology-forums.com/index.php?topic=400093>

Question 676

The proper term for Channel Locks is _____.

- A) Crescent wrench B) Vise Grips
C) Multigroove adjustable pliers D) Locking pliers

Answer: <https://biology-forums.com/index.php?topic=397582>

Question 677

Technician A says that a torque arm is designed to support the weight of the vehicle. Technician B says that a torque arm is designed to prevent rear axle wind up. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399995>

Question 678

On a vehicle with a mass airflow injection system, which of the following is likely to occur with a vacuum leak at idle?

- A) No fuel mixture change B) Rich fuel mixture
C) Lean fuel mixture D) None of these

Answer: <https://biology-forums.com/index.php?topic=399245>

Question 679

Which rating is the ACEA rating specified for use by many European vehicle manufacturers?

- A) SM B) GF-4 C) A3/B3 D) SAE

Answer: <https://biology-forums.com/index.php?topic=397929>

Question 680

The comprehensive component monitor checks computer controlled devices for _____.

- A) Functionality B) Rationality C) Opens D) All of the above

Answer: <https://biology-forums.com/index.php?topic=399359>

Question 681

Technician A says to always push heavy objects. Technician B says to always pull heavy objects. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397504>

Question 682

Which of the following is not part of the UTQG system?

- A) Temperature B) Treadwear C) Traction D) Speed rating

Answer: <https://biology-forums.com/index.php?topic=399859>

Question 683

Which type of pliers is capable of fitting over a large object?

- A) Locking pliers B) Multigroove adjustable pliers
C) Linesmans pliers D) Slip joint pliers

Answer: <https://biology-forums.com/index.php?topic=397589>

Question 684

Bearing _____ occurs when a bearing shell is slightly above the parting surface of the bearing cap.

- A) Cap lock B) Overlap C) Crush D) Interference fit

Answer: <https://biology-forums.com/index.php?topic=398185>

Question 685

What are the characters that are embedded in most engine blocks and are used for identification?

- A) Julian date B) Casting number C) Calibration codes D) VIN

Answer: <https://biology-forums.com/index.php?topic=397788>

Question 686

Vehicle curb height should be checked and corrected before performing a wheel alignment.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=400163>

Question 687

To determine if a windshield wiper problem is electrical or mechanical, the technician should _____.

- A) Check the condition of the wiper blades
B) Check to see if the fuse is blown
C) Disconnect the linkage from the windshield wiper motor and operate the windshield wiper
D) Check the washer fluid for contamination

Answer: <https://biology-forums.com/index.php?topic=398710>

Question 688

Technician A says to be sure the piston notch "front" or arrow points toward the front of the engine. Technician B says to be sure that the piston ring gaps all line up before installing the piston.. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398235>

Question 689

Fluid exchange can be performed using _____.

- A) A machine that replaces the ATF through the cooler lines
B) A machine that forces the old fluid out, using a pump inside the machine that is attached to the fluid inlet after removing the transmission pan and filter
C) Drain and refill three times
D) All of the above

Answer: <https://biology-forums.com/index.php?topic=400367>

Question 690

What term describes a multiple choice answer designed to resemble the correct answer?

- A) Inoperative B) Distractor C) Incoherent D) Fictitious

Answer: <https://biology-forums.com/index.php?topic=397473>

Question 691

Two technicians are discussing parking brake systems that mechanically actuate the rear disc brakes. Technician A says that the calipers are self-adjusting. Technician B says that the actuating cables are adjustable at the equalizer. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399741>

Question 692

Two technicians are discussing non-indicator type ball joint inspection. Technician A says that the vehicle should be on the ground with the ball joints loaded, then checked for free play. Technician B says the ball joints should be unloaded before checking for free play. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399952>

Question 693

Which of these is the most accurate test to determine the condition of a battery?

- A) Hydrometer test B) Voltage drop test
C) Open circuit voltage (OCV) test D) Load or capacity test

Answer: <https://biology-forums.com/index.php?topic=398583>

Question 694

When the clutch engages, spring force clamps the friction disc between the flywheel and the _____.

- A) Ring gear B) Transmission input shaft
C) Pressure plate D) Release bearing

Answer: <https://biology-forums.com/index.php?topic=400189>

Question 695

Technician A says that engine parts need to be cleaned before a thorough test can be done to detect cracks. Technician B says that pressure testing can be used to find cracks in blocks or cylinder heads. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398068>

Question 696

When rotating tires on a vehicle equipped with TPMS Technician A says that the sensors will be automatically relearned after driving a few miles. Technician B says that the sensor positions should be relearned, using a scan tool, before returning the vehicle to the customer. Who is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399888>

Question 697

Valve lifters are designed in which of these ways?

- A) Ground on one side to compensate for cam offset B) Dome shaped to assist in rotation
C) Only replaced in complete sets D) Cut at an angle

Answer: <https://biology-forums.com/index.php?topic=398131>

Question 698

The term "volumetric efficiency" refers to the ability of an engine to _____.

- A) Create emissions B) Pull in air C) Create heat D) Distribute air evenly

Answer: <https://biology-forums.com/index.php?topic=397997>

Question 699

Technician A says that a five-speed automatic transmission will often use a compound planetary gear set. Technician B says that the torque converter clutch is often pulsed on and off to provide smooth engagement. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400321>

Question 700

All of the following are characteristic of a hybrid electric vehicle (HEV) EXCEPT _____.

- A) High voltages (Safety issue)
B) Lower fuel economy
C) Quiet
D) Lower amount of carbon dioxide released into the atmosphere

Answer: <https://biology-forums.com/index.php?topic=399421>

Question 701

A quick diagnostic test of wheel speed sensors (WSS) on some Bosch ABS systems is to hoist the vehicle and spin each tire individually. If the WSS is working properly _____.

- A) The amber ABS warning light should illuminate B) The red brake warning light should illuminate
C) Both A and B are correct D) Neither A nor B is correct

Answer: <https://biology-forums.com/index.php?topic=399819>

Question 702

Two technicians are discussing the installation of a rebuilt engine into a vehicle. Technician A says that the radiator should be flow tested to help ensure that the engine will not overheat. Technician B says that a new thermostat should be installed. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398263>

Question 703

What reference voltage (supply voltage) is used with digital wheel speed sensors?

- A) 5 volts DC B) 12 volts AC C) 12 volts DC D) None of these

Answer: <https://biology-forums.com/index.php?topic=399825>

Question 704

A balance shaft used in a 90-degree V-6 engine is used to correct which of these types of force?

A) Rolling couple B) Secondary vibration C) Rocking couple D) Primary vibration

Answer: <https://biology-forums.com/index.php?topic=398198>

Question 705

Exhaust gas recirculation (EGR) is generally not needed under any of the following conditions EXCEPT _____.

- A) Cold engine B) Cruise speed
C) Wide open throttle (WOT) D) Idle speed

Answer: <https://biology-forums.com/index.php?topic=399301>

Question 706

Magnetic lines of flux flow very easily through objects with high reluctance.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=398501>

Question 707

The output of a MAP sensor is reading 1.0 volt. What is the approximate engine vacuum in inches of mercury (Hg)?

- A) 17-21 B) 10-15 C) 0 D) 5

Answer: <https://biology-forums.com/index.php?topic=399093>

Question 708

What color is diesel fuel dyed if it is for off-road use only?

- A) Red B) Green C) Yellow D) Blue

Answer: <https://biology-forums.com/index.php?topic=398930>

Question 709

It is 90°F in the shop and the humidity is high. What pressure will be shown on the high side pressure gauge (AC system on)?

Answer: <https://biology-forums.com/index.php?topic=398865>

Question 710

The outlet line from the evaporator should be _____.

- A) Frost-covered B) Hot C) Warm D) Cool

Answer: <https://biology-forums.com/index.php?topic=398857>

Question 711

Technician A says that you only have to pay for a test one time; if you fail you can take it again for free. Technician B says that a photo ID is needed to enter the test center. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397482>

Question 712

When refueling a CNG vehicle, why is it recommended that the tank be filled to a high pressure?

- A) The range of the vehicle is increased B) The cost of the fuel is lower
C) Less of the fuel is lost to evaporation D) Both A and C

Answer: <https://biology-forums.com/index.php?topic=398918>

Question 713

What other engine component may have to be machined if the cylinder heads are machined on a V-type engine?

- A) Exhaust manifold B) Distributor mount (if the vehicle is so equipped)
C) Intake manifold D) Block deck

Answer: <https://biology-forums.com/index.php?topic=398087>

Question 714

The energy of mass in motion is called _____.

- A) Kinetic energy B) Inertia C) Potential energy D) None of these

Answer: <https://biology-forums.com/index.php?topic=397711>

Question 715

If the turning radius (toe out on turns, or TOOT) is out of specification, what part or component is defective?

- A) The control arm is bent B) The strut is bent
C) The spindle is bent D) The steering arm is bent

Answer: <https://biology-forums.com/index.php?topic=400123>

Question 716

Two technicians are discussing what could be wrong with a hydraulically shifted automatic transmission/transaxle that does not shift out of first gear regardless of vehicle speed. Technician A says that a defective governor could be the cause. Technician B says that a weak pump could be the cause. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400362>

Question 717

Technician A says to use lineman's gloves when servicing the high voltage system on hybrid electric vehicles. Technician B says that hybrid vehicles have a plug to disable the high voltage system before service. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398037>

Question 718

A vehicle with a lane departure warning system uses sensors or cameras to monitor _____.

- A) Roadside tree density B) Road line markings
C) Vehicles behind and in front D) Road surface roughness

Answer: <https://biology-forums.com/index.php?topic=398708>

Question 719

Technician A says that temperature sensors decrease in resistance as the temperature increases; this is called positive temperature coefficient (PTC). Technician B says that some vehicle manufacturers use a stepped ECT circuit inside the PCM to broaden the accuracy of the sensor. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399053>

Question 720

Two technicians are discussing temperature and heat. Technician A says that temperature is the intensity of the heat source. Technician B says that heat is the amount of heat. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397697>

Question 721

Coolant drained from the cooling system when replacing a thermostat or water pump should be _____.

- A) Reused B) Poured down a toilet
C) Disposed of properly or recycled D) Filtered and reinstalled after the repair

Answer: <https://biology-forums.com/index.php?topic=398023>

Question 722

Which statements are true about wire, terminals, and connectors?

- A) A wire is called a lead, and the metal end is a connector
B) A connector is usually a plastic piece where terminals lock in
C) A lead and a terminal are the same thing
D) Both A and C

Answer: <https://biology-forums.com/index.php?topic=398410>

Question 723

Technician A says that air bag electrical terminals are copper-plated to protect against corrosion. Technician B says that pretensioners are explosive (pyrotechnic) devices which remove the slack from the seat belt and help position the occupant. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398760>

Question 724

The diesel injection pump is usually driven by a _____.

- A) Shaft drive off of the crankshaft B) Chain drive off of the camshaft
C) Belt off of the crankshaft D) Gear off of the camshaft

Answer: <https://biology-forums.com/index.php?topic=397862>

Question 725

Technician A says that canister purging occurs during wide open throttle conditions. Technician B says that canister purging uses intake manifold vacuum to pull fuel vapors from the canister. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399296>

Question 726

When testing the ECT sensor with the connector disconnected, the technician should select what position on the DMM?

- A) AC volts B) Hz (hertz) C) DC volts D) Ohms

Answer: <https://biology-forums.com/index.php?topic=399045>

Question 727

Which type of disc brake caliper may leak fluid more often?

- A) Single piston B) Sliding C) Floating D) Fixed

Answer: <https://biology-forums.com/index.php?topic=399684>

Question 728

Technician A says that objects with high permeability allow magnetic lines of flux to flow easily through their material. Technician B says that some objects are good insulators that will not allow magnetic lines of flux to flow through their material. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398500>

Question 729

The blower motor resistors are used to limit _____ to the motor

- A) Voltage B) Current C) Airflow D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=398831>

Question 730

Which of the following is NOT a type of automotive spring?

- A) Leaf B) Torsion bar
C) Coil D) All of these are automotive springs

Answer: <https://biology-forums.com/index.php?topic=399941>

Question 731

Before the valves are removed from the cylinder head, what operations need to be completed?

- A) Remove burrs from the stem of the valve (s) B) Remove valve locks (keepers)
C) Remove cylinder head (s) from the engine D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398048>

Question 732

Technician A says that the cam bearings should be installed using a driver and dead blow hammer. Technician B says that main bearings and rod bearings should be checked for proper oil clearance by measuring the crankshaft journals and inside diameter of bearings. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398237>

Question 733

An antenna lead-in wire should have how many ohms of resistance between the center terminal and the grounded outer covering?

- A) 300-500 ohms B) 5-50 ohms C) < 5 ohms D) Infinity (OL)

Answer: <https://biology-forums.com/index.php?topic=398771>

Question 734

Which of these is the most current version of GM's Dexron ATF?

- A) Dexron VII B) Dexron VI C) Dexron V D) Dexron III

Answer: <https://biology-forums.com/index.php?topic=400357>

Question 735

The maximum traction between a tire and the road occurs when the tire is
A) Rotating freely B) Slipping 80% to 90% C) Locked and skidding D) Slipping 10% to 20%
Answer: <https://biology-forums.com/index.php?topic=399789>

Question 736

The horn switch on the steering wheel of a vehicle that uses a horn relay _____.
A) Sends electrical power to the horns B) Provides the ground circuit for the horn
C) Provides power (12 V) to the horn relay D) Grounds the horn relay coil
Answer: <https://biology-forums.com/index.php?topic=398714>

Question 737

Unusual noise during a test drive can be caused by _____.
A) Defective or worn control arm bushings or ball joints
B) Worn or defective CV joints
C) Defective wheel bearings or stabilizer bar links
D) All of the above
Answer: <https://biology-forums.com/index.php?topic=399951>

Question 738

A water pump is a positive displacement-type pump.
A) True B) False
Answer: <https://biology-forums.com/index.php?topic=397906>

Question 739

Which term describes the speed of data transmission?
A) Pulse width modulation B) Oscillator speed
C) Frequency D) Baud rate
Answer: <https://biology-forums.com/index.php?topic=399040>

Question 740

During load testing, battery voltage should not drop below _____.
A) 9.6 B) 7.5 C) 10.5 D) 8.6
Answer: <https://biology-forums.com/index.php?topic=398584>

Question 741

Two technicians are discussing drum brake shoes. Technician A says that forward and rear-facing shoes are the same and can be installed in either position on any drum brake system. Technician B says that the darker color linings should always be placed toward the front of the vehicle. Which technician is correct?
A) Technician A only B) Technician B only C) Both technicians D) Neither technician
Answer: <https://biology-forums.com/index.php?topic=399632>

Question 742

During a fuel injector pressure drop test, the difference between any two fuel injectors should not exceed _____.
A) 0.4 PSI B) 14.7 PSI C) 1.5 PSI D) 15 PSI
Answer: <https://biology-forums.com/index.php?topic=399250>

Question 743

Which tool is most often used to measure suspension component free play?
A) Telescoping gauges B) Micrometer C) Vernier caliper D) Dial indicator
Answer: <https://biology-forums.com/index.php?topic=399974>

Question 744

A defective (collapsed) engine mount on a front-wheel drive vehicle can cause a vibration.
A) True B) False
Answer: <https://biology-forums.com/index.php?topic=400262>

Question 745

The force required to deploy a typical airbag is approximately equal to the force of a vehicle hitting a wall at over _____ miles per hour

A) 15-10 B) 10 C) 3-5 D) 15

Answer: <https://biology-forums.com/index.php?topic=398764>

Question 746

Technician A says that the kinetic energy of a vehicle is proportional to its weight. Technician B says that the kinetic energy of a moving vehicle is directly proportional to its speed. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397701>

Question 747

What is the term used to describe mounting a tire with the valve stem lined up with the dot painted on the tire?

A) Wheel balancing B) Match mounting C) Equal configuration D) None of these

Answer: <https://biology-forums.com/index.php?topic=399914>

Question 748

The most common complaint from CV joint failure is noise while turning.

A) True B) False

Answer: <https://biology-forums.com/index.php?topic=400269>

Question 749

Technician A says that engine blocks are either cast iron or aluminum. Technician B says that cores are used inside a mold to form water jackets and cylinder bores. Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398165>

Question 750

Aftermarket parts catalogs can be a useful source of information and they are usually _____.

A) Available on CD or DVD B) Available for a fee on a secured internet site

C) Free D) Available by paid subscription

Answer: <https://biology-forums.com/index.php?topic=397761>

Question 751

The usual maximum pressure that should be used when pressure bleeding a brake system is _____.

A) 30 psi B) 70 psi C) 50 psi D) 20 psi

Answer: <https://biology-forums.com/index.php?topic=399598>

Question 752

Which of the following is NOT a characteristic of satisfactory engine oil?

A) Proper viscosity B) Provide dry friction between moving parts

C) Resist foaming D) Pours at low temperatures

Answer: <https://biology-forums.com/index.php?topic=397937>

Question 753

Define rank. Explain how to find the rank for data which repeats (for example, the data set: 4, 5, 5, 5, 7, 8, 12, 12, 15, 18).

Answer: <https://biology-forums.com/index.php?topic=408262>

Question 754

Interior overhead lights (dome lights) are operated by door jamb switches that _____.

A) Complete the power side of the circuit

B) Complete the ground side of the circuit

C) Move the bulb(s) into contact with the power and ground

D) Either A or B depending on application

Answer: <https://biology-forums.com/index.php?topic=398671>

Question 755

GDI equipped engines have a higher efficiency due to a _____ compression ratio.

A) Lower B) Higher C) Related D) Colder

Answer: <https://biology-forums.com/index.php?topic=399209>

Question 756

Technician A says that the outer portion of the driveshaft can be used as a slide hammer to pop the inboard CV joint out of the transaxle. Technician B says that you should not hammer on the outer end of the outboard CV joint to get it out of the hub. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400273>

Question 757

Two technicians are discussing inspection of the transmission pan. Technician A says that some friction material at the bottom of the pan is normal. Technician B says that if any metal parts stick to a magnet then further investigation is needed to determine the cause. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400370>

Question 758

A technician connects one lead of a digital voltmeter to the positive (+) terminal of the battery and the other meter lead to the battery terminal (B) of the starter solenoid and then cranks the engine. During cranking, the voltmeter displays a reading of 878 mV. Technician A says that this reading indicates that the resistance of the positive battery cable is too high. Technician B says that this reading indicates that the starter is defective. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398619>

Question 759

Traction control uses the antilock braking system and other devices to limit _____ of the drive wheel during acceleration.

- A) Negative slip B) Side slip C) Positive slip D) None of these

Answer: <https://biology-forums.com/index.php?topic=399837>

Question 760

If the brake pedal linkage is not adjusted correctly, brake fluid may not be able to expand back into the reservoir through the _____ of the master cylinder when the brakes get hot.

- A) Replenishing port (rearward hole) B) Vent port (forward hole)

Answer: <https://biology-forums.com/index.php?topic=399524>

Question 761

Which method of blending ethanol with gasoline is the most accurate?

- A) Sequential B) In-line
C) Splash D) All of the above are equally accurate methods

Answer: <https://biology-forums.com/index.php?topic=398891>

Question 762

Hearing protection should be worn any time the noise level exceeds _____.

- A) 60 dB B) 90 dB C) 80 dB D) 70 dB

Answer: <https://biology-forums.com/index.php?topic=397491>

Question 763

Which diagnostic step is the most important aspect of diagnosis?

- A) Retrieve the trouble codes B) Verify the problem
C) Check the service bulletins D) Visual inspection

Answer: <https://biology-forums.com/index.php?topic=399392>

Question 764

GMLAN is the General Motors term for which type of module communication?

- A) Keyword 2000 B) UART C) High-speed CAN D) Class 2

Answer: <https://biology-forums.com/index.php?topic=398534>

Question 765

Most vehicle manufacturers specify a lug nut (wheel nut) tightening torque specification of about _____.

- A) 100 to 125 lb-ft B) 125 to 150 lb-ft C) 150 to 175 lb-ft D) 80 to 100 lb-ft

Answer: <https://biology-forums.com/index.php?topic=397816>

Question 766

What service operations is most important on engines equipped with a turbocharger?

- A) Replacing the Air filter regularly B) Replacing the fuel filter regularly
C) Regular exhaust system maintenance D) Regular oil changes

Answer: <https://biology-forums.com/index.php?topic=397991>

Question 767

What term refers to the distance between the line through the steering axis and the centerline of the wheel at the contact point with the road surface?

- A) Scrub radius B) Included angle C) SAI D) Toe-out on turns

Answer: <https://biology-forums.com/index.php?topic=400145>

Question 768

Technician A says that leaf springs are mounted lengthwise on the rear of many vehicles. Technician B says that some vehicles use transversely mounted leaf springs on the rear. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399985>

Question 769

A zener diode is normally used for voltage regulation. A zener diode, however, can also be used for high voltage spike protection if connected _____.

- A) Positive to anode, negative to cathode
B) Positive to cathode, ground to anode
C) Negative to anode, cathode to a resistor then to a lower voltage terminal
D) Both A and C

Answer: <https://biology-forums.com/index.php?topic=398513>

Question 770

Technician A says that a MAF sensor actually measures the density and amount of air flowing into the engine. Technician B says a that hot wire MAF sensor uses the electronics in the sensor itself to heat a wire 70°C above the temperature of the air entering the engine. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399109>

Question 771

Which gas is generally considered to be the rich indicator? (The higher the level of this gas, the richer the air-fuel mixture.)

- A) CO₂ B) O₂ C) CO D) HC

Answer: <https://biology-forums.com/index.php?topic=399264>

Question 772

Many vehicle manufacturers recommend that a special electrical connector be installed between the battery and the battery cable when testing for _____.

- A) Specific gravity B) Battery charge rate
C) Battery drain (parasitic drain) D) Battery voltage

Answer: <https://biology-forums.com/index.php?topic=398572>

Question 773

Which Federal Motor Vehicle Safety Standard requires electronic stability control to be on all vehicles by 2011?

- A) 126 B) 101 C) 109 D) 113

Answer: <https://biology-forums.com/index.php?topic=399830>

Question 774

A typical drum brake uses how many hold-down springs?

- A) 4 B) 2 C) 1 D) 6

Answer: <https://biology-forums.com/index.php?topic=399642>

Question 775

Where is the most common location for the coil spring on an SLA front suspension?

- A) Upper control arm B) Radius arm C) Stabilizer bar D) Lower control arm

Answer: <https://biology-forums.com/index.php?topic=399962>

Question 776

Air pressure checking is used to test _____.

- A) Governors B) Clutch packs C) TV adjustment D) Vacuum modulators

Answer: <https://biology-forums.com/index.php?topic=400378>

Question 777

If a digital meter face shows 0.93 when set to k ohms, the reading means _____.

- A) 930 ohms B) 93 ohms C) 93000 ohms D) 9300 ohms

Answer: <https://biology-forums.com/index.php?topic=398368>

Question 778

What type of valve core is used in stem-mounted sensors?

- A) Brass B) Nickel plated C) Aluminum D) Steel

Answer: <https://biology-forums.com/index.php?topic=399884>

Question 779

Which term describes the process of manually adjusting variables such as speed, load, and spark timing to determine the optimum output settings for the computer?

- A) Performance programming B) Engine mapping
C) Reflashing D) Signal conditioning

Answer: <https://biology-forums.com/index.php?topic=399037>

Question 780

The heat energy released from the combustion process is expressed in _____.

- A) Fahrenheit B) Calories C) BTUs D) None of these

Answer: <https://biology-forums.com/index.php?topic=398951>

Question 781

Technician A says that the tinnerman nuts used to hold the brake drum on should be reinstalled when the drum is replaced. Technician B says that a drum should be removed inside a sealed vacuum enclosure or washed with water or solvent to prevent possible asbestos dust from being released into the air. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399656>

Question 782

Which is the preferred method for tire rotation?

- A) Full "x" B) Modified "x" C) Side to side D) Front to rear

Answer: <https://biology-forums.com/index.php?topic=399921>

Question 783

Pressure plate assemblies may include all of the following except _____.

- A) Diaphragm spring and pivot rings B) Release fork, return springs, and pivot
C) Coil springs, release levers, and rollers D) Coil springs and weighted release levers

Answer: <https://biology-forums.com/index.php?topic=400192>

Question 784

A service advisor is also called a _____.

- A) Service Manager B) Service writer C) Technician D) Shop foreman

Answer: <https://biology-forums.com/index.php?topic=397368>

Question 785

Technician A says that all automotive coil springs have the same number of coils. Technician B says that coil spring spacers can cause damage to the spring. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399944>

Question 786

A cylinder deactivation system uses _____ to operate the system.

- A) Oil pressure B) Magnetic induction C) Roller pumps D) None of these

Answer: <https://biology-forums.com/index.php?topic=398135>

Question 787

Which of these statements is true regarding scrub radius?

- A) It can be measured B) It cannot be adjusted C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400146>

Question 788

Two technicians are discussing the need for the history of the vehicle. Technician A says that an accident could cause faults due to hidden damage. Technician B says that some faults could be related to a previous repair. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397754>

Question 789

Enhanced EVAP systems that are able to detect fuel vapor leaks were mandated on all U.S. cars starting in _____.

- A) 1974 B) 1996 C) 1994 D) 1983

Answer: <https://biology-forums.com/index.php?topic=399297>

Question 790

Which of these terms is a measure of the actual on-time measured in milliseconds?

- A) Amplitude B) Period C) Frequency D) Pulse width

Answer: <https://biology-forums.com/index.php?topic=398406>

Question 791

Using compressed air and an blow gun, what is the maximum allowable air pressure?

- A) 30 psi B) 10 psi C) 40 psi D) 20 psi

Answer: <https://biology-forums.com/index.php?topic=397611>

Question 792

Manifold sizes represent a compromise. They must have a cross-section large enough to allow charge flow for a maximum amount of _____.

- A) Power B) Flow resistance C) Speed D) Torque

Answer: <https://biology-forums.com/index.php?topic=397980>

Question 793

An OSHA approved air nozzle limits pressure at the outlet to _____.

- A) 30 PSI B) 110 PSI
C) 30 or 60 PSI, depending on the air supply D) None of these

Answer: <https://biology-forums.com/index.php?topic=397517>

Question 794

A screw that can make its own threads when installed is called a _____ screw.

- A) Sheet metal B) Tapered C) Self-tapping D) Both A and C

Answer: <https://biology-forums.com/index.php?topic=397558>

Question 795

Typical primary coil resistance specifications usually range from _____ ohms.

- A) 6,000-30,000 B) 100-450 C) 0.5 to 3 D) 500-1500

Answer: <https://biology-forums.com/index.php?topic=398994>

Question 796

A cranking system voltage drop test is being done. Technician A says that the higher the voltage drop, the lower the resistance in the circuit. Technician B says that a high voltage drop in the cranking circuit wiring can cause slow engine cranking. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398627>

Question 797

The conventional theory for current flow is being used to determine the direction of magnetic lines of force. Technician A says that the left-hand rule should be used. Technician B says that the right-hand rule should be used. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398489>

Question 798

Dampeners are used on some fuel rails to _____.

- A) Reduce noise B) Reduce (decrease) the fuel pressure in the rail
C) Trap dirt and keep it away from the injectors D) Increase the fuel pressure in the rail

Answer: <https://biology-forums.com/index.php?topic=399173>

Question 799

Which part does NOT rotate when the engine is running and the clutch is depressed?

- A) Pilot bearing B) Flywheel C) Pressure plate D) Clutch disc

Answer: <https://biology-forums.com/index.php?topic=400180>

Question 800

Technician A says that a loose drive belt could cause overcharging. Technician B says that undersized wiring between the alternator and the battery could cause undercharging. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398668>

Question 801

Which type nut is used on top of a regular nut to prevent loosening of the fastener?

- A) Jam nut B) Castle nut C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397578>

Question 802

Where is the "peen" of the hammer?

- A) The back part opposite the striking face B) The striking face
C) The handle D) The part that connects to the handle

Answer: <https://biology-forums.com/index.php?topic=397587>

Question 803

A dry park test can be useful to diagnose which of the following?

- A) Ball joint movement B) Front wheel bearing failure
C) Control arm bushing wear D) All of these are correct

Answer: <https://biology-forums.com/index.php?topic=399970>

Question 804

List the assumptions for testing hypotheses that three or more means are equivalent.

Answer: <https://biology-forums.com/index.php?topic=408257>

Question 805

Technician A says that dynamic voltage is the voltage (usually of a battery) that exists without a load being applied. Technician B says that open circuit voltage (OCV) is the voltage of the power source (battery) with the circuit in operation. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398581>

Question 806

A customer complains that the heater works sometimes, but sometimes only cold air comes out while driving. Technician A says that the water pump is defective. Technician B says that the cooling system could be low on coolant. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397912>

Question 807

Through the 1950s, what were available as options for passenger cars?

- A) Heater B) Radio C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397359>

Question 808

Nothing is seen in the sight glass (R-12 system). Technician A says that the system may be completely empty of refrigerant. Technician B says that the system may be completely charged. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398848>

Question 809

Technician A says that a dry park test should be performed as part of the diagnosis. Technician B says that the dry park test should be performed with one technician moving the steering wheel while another watches and feels for movement in steering and suspension components. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399969>

Question 810

The differential cover must be removed before removing the rear axle on which type of axle?

- A) C-lock B) Press fit C) Retainer plate D) Welded tube

Answer: <https://biology-forums.com/index.php?topic=399620>

Question 811

The thread pitch of a bolt is measured in what units?

- A) Millimeters B) Threads per inch
C) Fractions of an inch D) Both A and B can be correct

Answer: <https://biology-forums.com/index.php?topic=397551>

Question 812

Printed service information may include different manuals for component location and electrical schematics.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=397769>

Question 813

Which of these is a non-condensable gas?

- A) R-12 B) Ozone C) Air D) R-134a

Answer: <https://biology-forums.com/index.php?topic=398872>

Question 814

Most chemical cleaners used for cleaning carbon-type deposits are strong soaps called _____.

- A) Cleaning materials B) pH materials C) Acid materials D) Caustic materials

Answer: <https://biology-forums.com/index.php?topic=398072>

Question 815

Which of these takes place during regeneration in a diesel particulate filter (DPF)?

- A) EGR system is being actively tested B) Catalytic converter is being purged
C) Soot is being burned D) The oxygen sensor is being cleaned

Answer: <https://biology-forums.com/index.php?topic=397870>

Question 816

When the drive gear and driven gear are rotating at the same speed, the gear ratio is _____.

- A) 0:0 B) 1:1 C) 2:1 D) None of these

Answer: <https://biology-forums.com/index.php?topic=397740>

Question 817

Which sensor is generally considered to be the electronic accelerator pump of a fuel-injected engine?

- A) Engine MAP sensor B) ECT sensor C) TP sensor D) O2S

Answer: <https://biology-forums.com/index.php?topic=399060>

Question 818

Fuel injectors can be tested using _____.

- A) A stethoscope B) An oscilloscope C) An ohmmeter D) Any of these

Answer: <https://biology-forums.com/index.php?topic=399233>

Question 819

How much fuel should be supplied to the engine every 30 seconds?

- A) 1 Pint B) 2 Liters C) 2 Pints D) 4 Pints

Answer: <https://biology-forums.com/index.php?topic=399164>

Question 820

Vacuum is applied where during vacuum bleeding?

- A) At the metering valve end of the combination valve B) At each wheel brake bleeder valve
C) At the vacuum booster check valve D) At the master cylinder reservoir

Answer: <https://biology-forums.com/index.php?topic=399596>

Question 821

The brakes on a dual-servo drum system are designated as _____.

- A) Two leading shoes B) Primary and secondary
C) Leading and trailing D) None of the above

Answer: <https://biology-forums.com/index.php?topic=399643>

Question 822

A defective outer CV joint will usually make a _____.

- A) Rumbling noise B) Clunking noise C) Growling noise D) Clicking noise

Answer: <https://biology-forums.com/index.php?topic=400255>

Question 823

Two technicians are discussing jump starting a hybrid electric vehicle. Technician A says that the high-voltage batteries can be jumped on some HEV models. Technician B says that the 12-volt auxiliary battery can be jumped using a conventional jump box or jumper cable. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399439>

Question 824

A P0122 DTC is retrieved using a scan tool. This DTC means _____.

- A) The TP sensor could be shorted-to-ground
B) The TP sensor voltage is low
C) The TP sensor signal circuit could be shorted-to-ground
D) All of the above are correct

Answer: <https://biology-forums.com/index.php?topic=399069>

Question 825

The planetary gearsets used in transfer cases consist of all of the following components EXCEPT _____.

- A) Forward clutch B) Sun gear
C) Planet carrier assembly D) Internal ring gear

Answer: <https://biology-forums.com/index.php?topic=400314>

Question 826

Technician A says all gaskets should be discarded during teardown to keep the work area clean. Technician B says to keep the old valve body gaskets intact to make sure the replacement is a perfect match. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400389>

Question 827

Which alignment angle is most likely to cause tire wear?

- A) SAI B) Caster C) Camber D) Toe

Answer: <https://biology-forums.com/index.php?topic=400130>

Question 828

The FMVSS 135 standards determine _____.

- A) The performance of the braking system
- B) The design of the braking system
- C) The materials used in the braking system
- D) All of the above

Answer: <https://biology-forums.com/index.php?topic=399494>

Question 829

Technician A says that oil pressure is normally higher when the engine is cold. Technician B says that normal engine oil pump pressure ranges from 20 to 80 psi (200 to 400 kPa) or 20 psi for every 1000 engine RPM. Who is right?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397957>

Question 830

Most manufacturers recommend that brake parts should be cleaned with _____.

- A) Denatured alcohol
- B) Clean water only
- C) Detergent and water
- D) Stoddard solvent

Answer: <https://biology-forums.com/index.php?topic=399662>

Question 831

The flat rate pay arrangement is also known as _____.

- A) Incentive pay
- B) Commission pay
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397421>

Question 832

Technician A says that since the technicians in the shop work as a team, its okay to borrow another technicians tools without asking. Technician B says to return borrowed tools in clean working condition. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397450>

Question 833

Servicing the base brakes on a hybrid vehicle requires the technician to _____.

- A) Disconnect the brake regeneration cables
- B) De-power and disconnect the HV battery
- C) Replace the pads when needed, just as on any other vehicle
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=399458>

Question 834

An easy check of the adaptive front light system (AFS) is to _____.

- A) Cycle the brake switch
- B) Check that the system performs a self-test during start-up
- C) Open and close the driver's door
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=398686>

Question 835

PM motors used in power windows, mirrors, and seats can be reversed by _____.

- A) Using a reverse relay circuit
- B) Sending current to a reversed field coil
- C) Using a relay and a two-way clutch
- D) Reversing the polarity of the current to the motor

Answer: <https://biology-forums.com/index.php?topic=398733>

Question 836

An aftermarket satellite radio has poor reception. Technician A says that a lack of a proper ground plane on the antenna could be the cause. Technician B says that mountains or tall buildings can interfere with reception. Who is right?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398776>

Question 837

Two technicians are discussing MacPherson struts. Technician A says that in most applications the entire strut assembly rotates when the front wheels are turned. Technician B says that a typical MacPherson strut suspension system uses only one control arm and one ball joint per side. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399925>

Question 838

When observing O2S waveforms on a DSO on an OBD-II vehicle, which O2 sensor should have more oscillations in its O2S waveform?

- A) They will be equal B) Downstream C) Upstream D) None of these

Answer: <https://biology-forums.com/index.php?topic=399354>

Question 839

How can a technician register to take the ASE tests?

- A) By mail B) On the ASE website C) By phone D) Any of these

Answer: <https://biology-forums.com/index.php?topic=397469>

Question 840

A power steering pressure switch sends a signal to the powertrain control module, indicating higher engine speed is needed during sharp cornering at slow speeds.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=400100>

Question 841

Why does a 4-cylinder engine have very little, if any, primary vibration?

- A) Two pistons traveling upward at the same time two pistons are traveling downward
B) Uses a splayed crankshaft
C) Bore is small, reducing the primary vibration
D) Two cylinders fire at the same time, reducing the primary vibration

Answer: <https://biology-forums.com/index.php?topic=398196>

Question 842

Technician A says that some manufacturers do NOT specify stall tests for their transmissions. Technician B says that stall testing can damage the transmission. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400372>

Question 843

Technician A says that the current trend is to use remote power steering fluid reservoirs. Technician B says that using a remote reservoir allows for a more compact power steering pump assembly. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400108>

Question 844

Technician A says that cylinder head resurfacing machines include grinders and milling machines. Technician B says that cylinder head reconditioning should start with resurfacing of valves. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398091>

Question 845

Which tool listed is a brand name?

- A) Vise Grips B) Side cutters C) Locking pliers D) Monkey wrench

Answer: <https://biology-forums.com/index.php?topic=397584>

Question 846

The arrow in a symbol for a semiconductor device _____.

- A) Points toward the negative B) Points away from the negative

C) Is attached to the emitter on a transistor D) Both A and C are correct

Answer: <https://biology-forums.com/index.php?topic=398508>

Question 847

Which computer function describes how the computer handles inputs?

A) Input B) Process C) Output D) Storage

Answer: <https://biology-forums.com/index.php?topic=399027>

Question 848

A contaminated sensing wire in a MAF sensor will cause the fuel system to _____ at idle.

A) Be normal B) Shut off C) Go rich D) Go lean

Answer: <https://biology-forums.com/index.php?topic=399117>

Question 849

Manufacturer warranty repair can be performed at independent service shops.

A) True B) False

Answer: <https://biology-forums.com/index.php?topic=397384>

Question 850

Which type question is the same as two true and false type questions?

A) All except B) Technician A/ Technician B

C) Most likely D) Least likely

Answer: <https://biology-forums.com/index.php?topic=397464>

Question 851

How many watts are consumed by a light bulb if 1.2 amperes are measured when 12 volts are applied?

A) 14.4 watts B) 144 watts C) 0.10 watt D) 10 watts

Answer: <https://biology-forums.com/index.php?topic=398305>

Question 852

The dot painted on many tires near the major splice indicates _____.

A) The smallest diameter of the tire B) The largest diameter of the tire

C) A sipe D) None of these

Answer: <https://biology-forums.com/index.php?topic=399871>

Question 853

Before servicing the brakes in a typical integral ABS, the technician should pump the brake pedal

A) 2 or 3 times B) 3 or 4 times C) 5 to 10 times D) 25 times or more

Answer: <https://biology-forums.com/index.php?topic=399797>

Question 854

During a retrofit, the replacement R-134a charge should be _____ than the specified R-12 charge.

A) 10-20% less B) 20-30% more C) 10-20% more D) 20-30% less

Answer: <https://biology-forums.com/index.php?topic=398879>

Question 855

Technician A says that electronic service information can be printed out so the technician can make notes on the copy. Technician B says that electronic service information prevents damage to the hardcopy service manuals. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397767>

Question 856

Ultra-low-sulfur diesel fuel has how much sulfur content?

A) 1500 PPM B) 50 PPM C) 500 PPM D) 15 PPM

Answer: <https://biology-forums.com/index.php?topic=398934>

Question 857

When interpreting meter readings in autoranging mode _____.

A) Note the prefix indicated by the meter B) Convert the reading prefix to base units if needed
C) Both A and B D) Neither A nor B
Answer: <https://biology-forums.com/index.php?topic=398381>

Question 858

The positive lead of a diode is called the _____.
A) Anode B) Emitter C) Cathode D) None of these
Answer: <https://biology-forums.com/index.php?topic=398524>

Question 859

The "brain" of the computer is the _____.
A) CPU B) RAM C) AD converter D) PROM
Answer: <https://biology-forums.com/index.php?topic=399017>

Question 860

A vehicle being inspected under an OBD-II testing program and the MIL is ON. What will be the results of the inspection?
A) The vehicle will pass the test B) The vehicle will receive an 80% pass rate
C) The vehicle will fail the test D) None of these
Answer: <https://biology-forums.com/index.php?topic=399278>

Question 861

The first step in diagnosing a Hydro-Boost problem is _____.
A) A pressure test of the pump B) A thorough visual inspection
C) A volume test of the pump D) To tighten the power steering drive belt
Answer: <https://biology-forums.com/index.php?topic=399775>

Question 862

If the voltage increases in a circuit, what happens to the current (amperes) if the resistance stays the same?
A) Remains the same B) Increases
C) Decreases D) Cannot be determined
Answer: <https://biology-forums.com/index.php?topic=398308>

Question 863

A defective APP sensor will cause _____.
A) Malfunction of the cruise control system B) Malfunction of the electronic throttle control
C) Both A and B D) Neither A nor B
Answer: <https://biology-forums.com/index.php?topic=398746>

Question 864

Windshield washer pumps can be damaged if _____.
A) Pure water is used in freezing weather B) Ethylene glycol antifreeze is used
C) Contaminated windshield washer fluid is used D) All of the above
Answer: <https://biology-forums.com/index.php?topic=398718>

Question 865

What frame design combines the body with the structure of the frame?
A) Perimeter frame B) Full frame C) Unit body D) Ladder frame
Answer: <https://biology-forums.com/index.php?topic=399934>

Question 866

E-diesel is diesel fuel with what additive?
A) Ethanol B) Methanol C) Vegetable oil D) Sulfur
Answer: <https://biology-forums.com/index.php?topic=398935>

Question 867

Technician A says that the torque available at the output shaft is greater in second gear than when the transmission/transaxle is in third gear at the same engine speed. Technician B says that the output shaft is rotating faster when the transmission/transaxle is in second gear compared to third gear when the engine is at the same speed. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400206>

Question 868

A disc brake rotor is being installed on a lathe for machining. During the setup a scratch test is performed. The scratch extended all the way around the rotor. Technician A says that the rotor should be loosened, rotated 180 degrees, and retightened. Technician B says that the rotor is not warped. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399754>

Question 869

Technician A says that steering linkages with zerk fittings should be greased at least every six months. Technician B says that some steering linkage joints are sealed and do not require regular service. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400082>

Question 870

On a General Motors vehicle, sensor programming starts with which wheel?

A) Right rear B) Right front C) Left rear D) Left front

Answer: <https://biology-forums.com/index.php?topic=399890>

Question 871

Technician A says that the torque converter should be separated from the flex (drive) plate before removing the automatic transmission/transaxle. Technician B says that the clutches should be installed "dry" when replacing the frictions and steels in a clutch pack. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400377>

Question 872

Two technicians are discussing electronic leveling systems. Technician A says battery power may be applied directly to the compressor. Technician B says most leveling systems use adjustable sensors. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400021>

Question 873

The SIDI high pressure fuel pump uses a single-barrel piston plunger that is driven by _____.

A) A three-lobed cam B) An electric motor

C) A square-lobed cam D) A single flat sided cam

Answer: <https://biology-forums.com/index.php?topic=399212>

Question 874

Which is not a recommended type of grease to use on brake parts?

A) Wheel bearing (chassis) grease B) Anti-seize compound

C) Silicone grease D) Synthetic grease

Answer: <https://biology-forums.com/index.php?topic=399714>

Question 875

Technician A says that a magnetic field is created in the alternator rotor. Technician B says that alternator output is increased if the speed of the alternator is decreased. Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398641>

Question 876

Why is it unnecessary to conduct multiple comparison tests after a nonsignificant F test statistic results?

Answer: <https://biology-forums.com/index.php?topic=408265>

Question 877

Electrical feedback is usually a result of _____.

A) Too high a voltage in circuit B) Too much current (amperage) in a circuit

C) Lack of a proper ground D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=398672>

Question 878

Your paycheck represents your _____ earnings.

A) FICA B) Net C) Gross D) None of these

Answer: <https://biology-forums.com/index.php?topic=397422>

Question 879

Two technicians are discussing the torquing process of head bolts. Technician A says that they should be tightened starting at the center of the head and working toward the ends. Technician B says that they should be tightened in three steps or according to the factory specified manner if torque-to-yield or torque-angle. Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398230>

Question 880

Intake manifold gaskets on a V-type engine can fail due to what factor?

A) Coolant damage
B) Relative movement between the intake manifold and the cylinder head
C) Fretting
D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398025>

Question 881

A rotating force is called _____.

A) Combustion pressure B) Torque
C) Eccentric movement D) Horsepower

Answer: <https://biology-forums.com/index.php?topic=397837>

Question 882

Radial tires can cause a vehicle to pull to one side while driving. This is called "radial tire pull" and is often due to _____.

A) Tire conicity B) Bead design
C) The angle of the body (carcass) plies D) Tread design

Answer: <https://biology-forums.com/index.php?topic=399850>

Question 883

A steering dampener may be needed to reduce shimmy on vehicles that have a high positive _____.

A) Toe B) Caster C) Camber D) Included angle

Answer: <https://biology-forums.com/index.php?topic=400122>

Question 884

The use of a variable vane turbocharger allows the elimination of the _____.

A) Turbocharger wastegate B) Diesel oxygen sensor
C) Exhaust cooler D) Intake air cooler

Answer: <https://biology-forums.com/index.php?topic=397880>

Question 885

Steel discs should be _____ before being installed.

A) Surface roughed up B) Cleaned C) Sanded D) All of these

Answer: <https://biology-forums.com/index.php?topic=400387>

Question 886

A high-speed CAN BUS communicates with a scan tool through which terminal (s)?

A) 4 and 16 B) 2 and 5 C) 7 and 15 D) 6 and 14

Answer: <https://biology-forums.com/index.php?topic=398530>

Question 887

Describe parametric and nonparametric tests. Explain why nonparametric tests are important.

Answer: <https://biology-forums.com/index.php?topic=408268>

Question 888

Polyglycol brake fluid _____.

- A) Is amber in color B) Is petroleum based C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397821>

Question 889

Which type wrench may be used on fasteners that do NOT require a lot of torque?

- A) Adjustable B) Box end C) Open end D) None of these

Answer: <https://biology-forums.com/index.php?topic=397592>

Question 890

Technician A says that a discharged battery (lower than normal battery voltage) can cause solenoid clicking. Technician B says that a discharged battery or dirty (corroded) battery cables can cause solenoid clicking. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398615>

Question 891

GM Class 2 communication toggles between _____.

- A) 0 and 7 volts B) 5 and 7 volts C) 0 and 12 volts D) 7 and 12 volts

Answer: <https://biology-forums.com/index.php?topic=398532>

Question 892

How often should linesman's gloves be inspected by a qualified testing lab?

- A) Daily B) Monthly C) Yearly D) Every six months

Answer: <https://biology-forums.com/index.php?topic=399443>

Question 893

Which component connects to the floor of the passenger compartment to isolate road noise, drafts, and dirt?

- A) Stub shaft B) Breakaway bracket C) Toe plate D) Knee bolster

Answer: <https://biology-forums.com/index.php?topic=400051>

Question 894

Technician A uses a scan tool to clear stored DTCs. Technician B says that clearing DTCs will also clear all of the noncontinuous OBD-II monitors. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399404>

Question 895

Technician A says that an eyewash station should be located in the corner out of the way. Technician B says that an eyewash station should be located in a central area. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397515>

Question 896

What part should be replaced when servicing a wheel bearing on a non-drive wheel?

- A) The grease seal B) The bearing cup
C) The cotter key D) Both the grease seal and the cotter key

Answer: <https://biology-forums.com/index.php?topic=399621>

Question 897

The brake pedal assembly uses a mechanical lever to _____.

- A) Decrease the distance the brake pedal needs to be depressed by the driver
B) Decrease the drivers force on the brake pedal applied to the master cylinder
C) Allow for clearance between the brake pedal and the floor when the brakes are applied
D) Increase the drivers force on the brake pedal applied to the master cylinder

Answer: <https://biology-forums.com/index.php?topic=397693>

Question 898

Technician A says that aftermarket parts must meet more demanding criteria than OEM parts. Technician B says that R&I means remove and inspect. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397457>

Question 899

Two technicians are discussing U-joints. Technician A says that a defective U-joint could cause a loud clunk when the transmission is shifted between Drive and Reverse. Technician B says a worn U-joint can cause a clicking sound when driving the vehicle in reverse. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400253>

Question 900

A technician replaced one HID (High Intensity Discharge) headlight due to road debris damage. Which is the MOST likely result?

- A) The new headlight is brighter B) The headlight color will be different
C) New headlight is dimmer D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=398680>

Question 901

On non-servo brakes, which shoe does most of the braking in during forward movement of the vehicle?

- A) The primary shoe B) The secondary shoe C) The leading shoe D) The trailing shoe

Answer: <https://biology-forums.com/index.php?topic=399645>

Question 902

Panhard rods are installed _____.

- A) To support the weight of the vehicle B) Parallel to the rear axle
C) Parallel to the centerline of the chassis D) None of these

Answer: <https://biology-forums.com/index.php?topic=400006>

Question 903

Some vehicles have a "mini converter." Where is this component located?

- A) Just upstream of the muffler B) Downstream of the main catalytic converter
C) Attached directly to the exhaust manifold D) None of these

Answer: <https://biology-forums.com/index.php?topic=399352>

Question 904

Technician A says that the intake valve runs hotter than the exhaust valve because the intake valve has the greater surface area. Technician B says that the exhaust valves usually do not burn due to the scavenging effect of the exhaust stream. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398097>

Question 905

On a HEV that uses a "START" push button, what precaution should be taken when de-powering the vehicle?

- A) Make sure the key is somewhere inside the vehicle
B) Put the key fob in the trunk
C) No special precautions are needed
D) Make sure the key fob is at least 15 feet away from the vehicle

Answer: <https://biology-forums.com/index.php?topic=399455>

Question 906

Technician A says that valve overlap is the number of crankshaft degrees that both valves are closed. Technician B says that valve overlap is the number of degrees that both valves are open. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398127>

Question 907

A customer complained of excessive vibration while cornering and accelerating at the same time. Technician A says that a fault in the transfer case is

the most likely cause. Technician B says that the vibration may be normal if the vehicle is equipped with Cardan U-joints at the front wheels. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400297>

Question 908

The unit of measurement for capacitor rating is called the _____.

- A) Farad B) Ohm C) Volt D) Ampere

Answer: <https://biology-forums.com/index.php?topic=398472>

Question 909

How much voltage is generally available to fuel injectors (most vehicles)?

- A) 7 Volts DC B) 5 Volts DC C) 10 Volts DC D) Battery voltage

Answer: <https://biology-forums.com/index.php?topic=399254>

Question 910

All these statements are correct EXCEPT _____.

- A) Pure water has a pH of 7, meaning it is neutral.
B) The Environmental Protection Agency does not include corrosive materials in its hazardous waste list published in the Code of Federal Regulations.
C) Lower pH numbers indicate a substance is more acidic.
D) Respirators MUST be worn when working with some hazardous waste products.

Answer: <https://biology-forums.com/index.php?topic=397528>

Question 911

Which of these, commonly called D2B, is an optical BUS system connecting audio, video, computer and telephone components in a single-ring structure with a speed of up to 5,600,000 bps?

- A) GMLAN B) CAN Network
C) Domestic Digital BUS D) Flexray BUS

Answer: <https://biology-forums.com/index.php?topic=398542>

Question 912

Technician A says that a good relay should measure between 60 and 100 ohms across the coil terminals. Technician B says that OL should be displayed on an ohmmeter when touching terminals 30 and 87. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398456>

Question 913

How can the electromagnetic strength of an energized coil of wire be increased?

- A) Increase current flow through the coil B) Increase the number of turns in the coiled wire
C) Place an iron core in the middle of the coil D) Any of these

Answer: <https://biology-forums.com/index.php?topic=398502>

Question 914

A press-fit dust boot requires the use of _____ to install it.

- A) Compressed air B) A boot driver C) A set of rings D) A screwdriver

Answer: <https://biology-forums.com/index.php?topic=399727>

Question 915

A tire is labeled 215/60R15 92T; the T indicates _____.

- A) Its load rating B) Its temperature resistance rating
C) Its speed rating D) Its tread wear rating

Answer: <https://biology-forums.com/index.php?topic=399848>

Question 916

All these are functions of coolant EXCEPT _____.

- A) Cooling system lubricant B) Corrosion inhibitor
C) Rust inhibitor D) All of these are functions of coolant

Answer: <https://biology-forums.com/index.php?topic=397898>

Question 917

Side clearance is a measure taken between the _____ and the _____.

- A) Piston pin; piston pin retainer (clip) B) Piston ring; piston ring groove
C) Piston (side skirt); cylinder wall D) Compression ring; oil control ring

Answer: <https://biology-forums.com/index.php?topic=398145>

Question 918

All of these are advantages of supercharging an engine, EXCEPT _____.

- A) Increases the air-fuel charge density
B) Pumped air pushes the remaining exhaust from the combustion
C) Lowers the temperature of the cylinder head, pistons, and valves
D) Allows the engine to run on lower pressures

Answer: <https://biology-forums.com/index.php?topic=397993>

Question 919

Technician A says that a standard spark plug can be used to check proper ignition system voltage. Technician B says that the energy required to jump the gap of a spark tester is around 3000 volts. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399397>

Question 920

Technician A says that a vehicle may have stored DTCs even if the MIL is not illuminated. Technician B says that all DTCs will illuminate the MIL. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399398>

Question 921

Series wound electric motors _____.

- A) Use a shunt coil B) Produce maximum power at 0 RPM
C) Produce maximum power at high RPM D) Produce electrical power

Answer: <https://biology-forums.com/index.php?topic=398592>

Question 922

Brake pedal feedback to the driver is provided by the _____.

- A) Vacuum check-valve operation B) Reaction system
C) Vacuum diaphragm D) Charcoal filter unit

Answer: <https://biology-forums.com/index.php?topic=399770>

Question 923

Some antilock braking systems use a yaw sensor. Where is this sensor usually mounted?

- A) Attached to or near the brake pedal assembly B) In the front of the vehicle near the radiator
C) Inside the vehicle under a seat D) On the master cylinder

Answer: <https://biology-forums.com/index.php?topic=399839>

Question 924

When testing an oxygen sensor using a digital storage oscilloscope (DSO), how quickly should the voltage change when either propane is added to the intake stream or when a vacuum leak is created?

- A) 100-200 ms B) 1-3 seconds C) 450-550 ms D) Less than 100 ms

Answer: <https://biology-forums.com/index.php?topic=399131>

Question 925

Floor jacks are designed to support a load.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=397651>

Question 926

What is the name of the organization created in 1970 to promote safe working conditions?

A) MSDS B) RCRA C) EPA D) OSHA

Answer: <https://biology-forums.com/index.php?topic=397548>

Question 927

The three states of matter are _____

- A) solid, liquid, and fluid. B) liquid, vapor, and fluid.
C) solid, vapor, and gas. D) solid, liquid, and vapor.

Answer: <https://biology-forums.com/index.php?topic=398812>

Question 928

After assembling a drum brake, it is discovered that the brake drum will not fit over the new brake shoes. Technician A says that the parking brake cable may not have been fully released. Technician B says to check to see if both shoes are contacting the anchor pin. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399665>

Question 929

What can happen if gasket surfaces are too smooth?

- A) Gasket can move out of proper location, causing leakage
B) Gasket will seal with no leaks
C) Nothing will happen
D) Gasket will not be able to seal the deep grooves in the surface

Answer: <https://biology-forums.com/index.php?topic=398227>

Question 930

The proper relationship between intake and exhaust valve diameter is _____.

- A) Exhaust valve size is 38% of intake valve size B) Intake valve size is 45% of exhaust valve size
C) Intake valve size is 85% of exhaust valve size D) Exhaust valve size is 85% of intake valve size

Answer: <https://biology-forums.com/index.php?topic=398105>

Question 931

Single piston calipers are _____.

- A) Seldom used on today's vehicles B) Expensive to manufacture
C) Easy to service D) Leak prone

Answer: <https://biology-forums.com/index.php?topic=399699>

Question 932

What are the state(s) of the refrigerant in the accumulator-drier?

- A) Liquid B) Vapor C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398819>

Question 933

Which of these is NOT a possible effect of using gasoline with alcohol additives?

- A) Increased volatility B) Reduced CO emissions
C) Increased octane D) All of these can result from using alcohol additives

Answer: <https://biology-forums.com/index.php?topic=398904>

Question 934

Most service information specifies that a _____ be used when testing a wide band oxygen sensor.

- A) Vacuum hose B) HO2S disconnect bypass tool
C) Factory scan tool D) Generic scan tool

Answer: <https://biology-forums.com/index.php?topic=399141>

Question 935

All switches illustrated in schematics are _____.

- A) Always shown in the on position
B) Always shown in the off position
C) Shown in their normal position
D) Shown in their on position except for lighting switches

Answer: <https://biology-forums.com/index.php?topic=398454>

Question 936

The accelerator pedal position (APP) sensor sends a _____ signal to the engine control computer.

- A) Voltage B) Balanced C) Pressure D) Spring

Answer: <https://biology-forums.com/index.php?topic=397881>

Question 937

Electromagnetic interference can be reduced by using a _____.

- A) Capacitor B) Coil C) Resistance D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398493>

Question 938

Core plugs are also called _____.

- A) Freeze plugs B) Frost plugs C) Weep plugs D) A or B

Answer: <https://biology-forums.com/index.php?topic=398169>

Question 939

Technician A says that circuits using semiconductors may also be known as solid state circuits. Technician B says that the process of introducing a precise amount of impurity to a pure semiconductor material is known as doping. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398520>

Question 940

Two technicians are discussing catalytic converters. Technician A says that the exhaust mixture must fluctuate between rich and lean for the best efficiency. Technician B says that the air-fuel mixture must be leaner than 14.7:1 for best performance from a three-way catalytic converter. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399339>

Question 941

Technician A says that the front brakes do most of the braking because the front brakes are larger. Technician B says that due to weight transfer, most of the braking force needs to be done by the front brakes. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399507>

Question 942

When removing cylinder heads, the fasteners should be removed in what order?

- A) Any order
B) The reverse order of tightening
C) The same order as the specified tightening sequence
D) All fasteners loosened slightly in the same order as the tightening sequence and then removed in any order

Answer: <https://biology-forums.com/index.php?topic=398041>

Question 943

What is true about the plastic conduit covering the wiring?

- A) The color identifies the voltage level of the circuits being protected.
B) The color stripe is used to identify the temperature rating of the conduit.
C) It protects the wiring.
D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398414>

Question 944

The intake manifold of a port fuel-injected engine does which of these?

- A) Uses a heater to heat the intake air B) Uses a leaner air-fuel mixture than TBI
C) Contains only air D) Contains only fuel

Answer: <https://biology-forums.com/index.php?topic=397975>

Question 945

Which of the following section numbers of the Clean Air Act apply to automotive air conditioning refrigerants?

- A) 609 B) 608 C) 409 D) 311

Answer: <https://biology-forums.com/index.php?topic=397531>

Question 946

DEX-COOL coolant is composed mostly of which of these chemicals?

- A) Alcohol B) Propylene glycol C) Methanol D) Ethylene glycol

Answer: <https://biology-forums.com/index.php?topic=397895>

Question 947

Housing expenses should not exceed _____ percentage of gross monthly income.

- A) 4% B) 30% C) 50% D) 15%

Answer: <https://biology-forums.com/index.php?topic=397425>

Question 948

Which company produced the first large scale affordable passenger car?

- A) Oldsmobile B) Mercedes C) Bentley D) Ford

Answer: <https://biology-forums.com/index.php?topic=397349>

Question 949

Technician A says that most modern vehicles have independent front suspensions. Technician B says that no vehicle has an independent rear suspension. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399939>

Question 950

Technician A says that a vehicle can fail a parking brake performance test if the linings are contaminated. Technician B says that worn-out base brakes will NOT affect parking brake performance. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399748>

Question 951

Which of these is (are) a main function of tires?

- A) Serve as shock absorbers to cushion the vehicle ride
B) Provide friction (traction) between the vehicle and the road
C) Both A and B
D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399865>

Question 952

What makes the BAS system attractive for buyers?

- A) Moderate increase in fuel economy versus conventional gasoline powered vehicles.
B) Lowest cost of all the hybrid systems
C) Both A and B
D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399425>

Question 953

Some states have a testing program that uses I/M 240 testing procedures. The number 240 refers to _____.

- A) The maximum level of HC emissions, 240 ppm
B) The length of the loaded mode test, 240 seconds
C) 240 pounds of load to be placed in the passenger seat
D) None of these

Answer: <https://biology-forums.com/index.php?topic=399275>

Question 954

Where is the fuel-pressure regulator located on a vacuum-biased port fuel-injection system?

- A) At the outlet of the fuel rail B) Near or on the fuel filter
C) At the inlet of the fuel rail D) In the tank

Answer: <https://biology-forums.com/index.php?topic=399174>

Question 955

All of these may be repaired with the transmission in the vehicle EXCEPT _____.

- A) Valve body B) Friction discs C) Speed sensors D) Pressure switches

Answer: <https://biology-forums.com/index.php?topic=400394>

Question 956

The shop foreman performs diagnostic tasks and assists other service technicians.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=397397>

Question 957

To check the charging voltage, connect a digital multimeter (DMM) to the positive (+) and negative (-) terminals of the battery and select _____.

- A) DC amps B) AC amps C) AC volts D) DC volts

Answer: <https://biology-forums.com/index.php?topic=398652>

Question 958

Cam ground pistons, as they warm up, take on which of these shapes?

- A) Oval B) Tapered C) Round D) No change

Answer: <https://biology-forums.com/index.php?topic=398153>

Question 959

The electronics in the rain-sense wiper module can detect the presence of rain drops under various lighting conditions. Which of these solid state components is used to sense rain drops?

- A) Infrared light sensor B) Photo Diode C) Laser LED D) Any of these

Answer: <https://biology-forums.com/index.php?topic=398725>

Question 960

Which component listed below does NOT form part of the combustion chamber?

- A) Piston B) Valve C) Connecting rod D) Cylinder head

Answer: <https://biology-forums.com/index.php?topic=397839>

Question 961

The gasket surface of a cylinder head, as measured with a precision straightedge, should have a maximum variation of _____.

- A) 0.020 inch in any 10-inch length or 0.020 inch overall
B) 0.001 inch in any 6-inch length or 0.004 inch overall
C) 0.004 inch in any 10-inch length or 0.008 inch overall
D) 0.002 inch in any 6-inch length or 0.004 inch overall

Answer: <https://biology-forums.com/index.php?topic=398083>

Question 962

A technician should do all of the following to prepare to take the ASE certification test EXCEPT _____.

- A) Eat a big meal B) Have photo ID, entry ticket, and #2 pencils
C) Try to keep work schedule light the day of the test D) Get a good nights sleep before the test

Answer: <https://biology-forums.com/index.php?topic=397467>

Question 963

Most manufacturers of vehicles equipped with diesel engines allow what type of biodiesel?

- A) B5 B) B80 C) B20 D) B100

Answer: <https://biology-forums.com/index.php?topic=398939>

Question 964

All of these are main jobs of the air cleaner and filter parts, EXCEPT _____.

- A) Act as a flame arrester in case of a backfire B) Silence the intake air noise
C) Clean the air before it is mixed with fuel D) Lower the intake air temperature

Answer: <https://biology-forums.com/index.php?topic=397972>

Question 965

Wheel cylinders are being discussed. Technician A says that if a wheel cylinder is not leaking fluid it is OK. Technician B says that wheel cylinders require further inspection. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399678>

Question 966

Technician A says that silicone grease can be used to lubricate the shoe contact ledges. Technician B says that synthetic brake grease, lithium brake grease, or anti-seize compound can be used as a brake lubricant. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399658>

Question 967

How much effort is typically required to turn the steering wheel on vehicles with power steering?

- A) 5-7 lbs. B) 10 lbs. or more C) 2-3.5 lbs. D) 0.5-1.5 lbs.

Answer: <https://biology-forums.com/index.php?topic=400109>

Question 968

Which act or organization regulates air conditioning refrigerant?

- A) Code of Federal Regulations (CFR) B) MSDS
C) WHMIS D) Clean Air Act (CAA)

Answer: <https://biology-forums.com/index.php?topic=397525>

Question 969

Which ASE area includes wheel alignment?

- A) Brakes B) Body
C) Chassis D) Steering and suspension

Answer: <https://biology-forums.com/index.php?topic=397361>

Question 970

What makes activated charcoal ideal for trapping gasoline fumes?

- A) High boiling point B) Large surface area C) Low flash point D) None of these

Answer: <https://biology-forums.com/index.php?topic=399294>

Question 971

Technician A says vehicles capable of using 100% ethanol are known as flex fuel vehicles. Technician B says these vehicles are unable to achieve 100 horsepower. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398923>

Question 972

Some of the wiring under the hood of a late model vehicle is encased in bright orange covering. This indicates a _____.

- A) High pressure hydraulic systems B) High voltage electrical system
C) High pressure air conditioning system D) None of these

Answer: <https://biology-forums.com/index.php?topic=398036>

Question 973

Technician A says that the horn is wired in parallel with the horn switch. Technician B says that a relay is commonly used to control horn operation. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400046>

Question 974

Rotors are vented _____.

- A) To reduce material cost B) To aid cooling
C) For manufacturing ease D) To increase strength

Answer: <https://biology-forums.com/index.php?topic=399701>

Question 975

23 out of 25 is what percentage?

- A) 1.08 B) 92 C) 0.92 D) None of these

Answer: <https://biology-forums.com/index.php?topic=397750>

Question 976

How much end play is generally acceptable in tie rod ends?

- A) 0.030 to 0.050 in. B) 0.050 to 0.100 in. C) 0.0010 to 0.030 in. D) Zero

Answer: <https://biology-forums.com/index.php?topic=400067>

Question 977

Which of these is NOT a possible effect of using gasoline with alcohol additives?

- A) Reduced CO emissions B) Increased volatility
C) Increased octane D) All of these can result from using alcohol additives

Answer: <https://biology-forums.com/index.php?topic=398924>

Question 978

Where in the air conditioning system is the refrigerant a high pressure liquid?

- A) Evaporator outlet B) Evaporator inlet C) Condenser inlet D) Condenser outlet

Answer: <https://biology-forums.com/index.php?topic=398795>

Question 979

Which component is typically used to set rear camber in many vehicles?

- A) Tie rod end B) Eccentric cam C) Eccentric bushing D) Either A or B

Answer: <https://biology-forums.com/index.php?topic=400167>

Question 980

DEX-COOL is _____.

- A) Propylene glycol B) Ethylene glycol
C) Silicate and phosphate free D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=397891>

Question 981

Technician A says that metal-type window tinting can affect the navigation system. Technician B says that most navigation systems require a monthly payment for use of the GPS satellite. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398694>

Question 982

Technician A says that a PAX run-flat tire uses a special wheel. Technician B says that a standard tire can be used to replace a PAX run-flat tire. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399854>

Question 983

Technician A says that a proper U-joint inspection can be done with the driveshaft in place on the vehicle. Technician B says that you must remove the driveshaft to properly inspect the U-joints. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400277>

Question 984

What maintenance should be performed to a power antenna to help keep it working correctly?

- A) Remove it from the vehicle and lubricate the gears and cable
B) Disassemble the mast and pack the mast with silicone grease (or equal)
C) Clean the mast with a soft cloth and lubricate with light oil
D) Loosen and then retighten the retaining nut

Answer: <https://biology-forums.com/index.php?topic=398773>

Question 985

The UART data BUS operates at a baud rate of _____ bps.
A) 8211 B) 8182 C) 8192 D) 5543

Answer: <https://biology-forums.com/index.php?topic=398541>

Question 986

Technician A says that radios receive AM and FM signals that are broadcast through the air. Technician B says that the radio antenna is used to induce a very large voltage signal as an input into the radio from the electromagnetic energy from the broadcast station. Who is right?
A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398780>

Question 987

The rain sense module (RSM) can turn on the wipers by communicating with _____.
A) the PCM B) the BCM C) instrument cluster D) the wiper motor

Answer: <https://biology-forums.com/index.php?topic=398726>

Question 988

What is NOT included on a work order?
A) Mileage B) Description of work requested
C) Customer's mothers maiden name D) VIN

Answer: <https://biology-forums.com/index.php?topic=397369>

Question 989

A starwheel adjuster is installed on the wrong side of the vehicle. Technician A says that the adjuster cannot operate at all if installed on the wrong side. Technician B says that the adjuster would cause the clearance to increase rather than decrease when activated. Which technician is correct?
A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399671>

Question 990

Which system prevents gasoline vapors from venting into the atmosphere?
A) PCV B) EGR C) HO2S D) EVAP

Answer: <https://biology-forums.com/index.php?topic=397367>

Question 991

kHz is a unit describing what property?
A) Continuity B) Diode bias C) Frequency D) None of these

Answer: <https://biology-forums.com/index.php?topic=398374>

Question 992

Ultra low-sulfur diesel has a maximum of _____ parts per million of sulfur.
A) 20 B) 15 C) 5 D) 10

Answer: <https://biology-forums.com/index.php?topic=398945>

Question 993

Many cleaning methods involve chemicals that are hazardous to use. The least hazardous method is generally considered to be the _____.
A) Cold soak tank B) Pyrolytic oven C) Hot vapor tank D) Hot soak tank

Answer: <https://biology-forums.com/index.php?topic=398066>

Question 994

Two light bulbs are wired in series and one bulb burns out (opens.) Technician A says that the other bulb will still work. Technician B says that the current will increase in the circuit because one electrical load (resistance) is no longer operating. Which technician is correct?
A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398340>

Question 995

To check a crankshaft journal for taper, the journal should be measured in at least how many locations?
A) 1 B) 6 C) 2 D) 4

Answer: <https://biology-forums.com/index.php?topic=397665>

Question 996

Technician A says that if the parking brake cable is adjusted too tight, the rear brakes may drag and overheat. Technician B says that the parking brake is adjusted properly if the cable is tight when in the released position. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399730>

Question 997

A common source of vacuum for boosters used on diesel engines is _____.

- A) Carburetor B) Auxiliary vacuum pump
C) Intake manifold D) Exhaust manifold

Answer: <https://biology-forums.com/index.php?topic=399780>

Question 998

After the following exhaust emissions were measured, how was the engine operating?

HC=766 PPM CO₂=8.2% CO=4.6% O₂=0.1%

- A) Too rich B) Too lean

Answer: <https://biology-forums.com/index.php?topic=399268>

Question 999

Most vehicle and tire manufacturers recommend that no more than _____ ounce balance weight be added to a wheel/tire assembly.

- A) 5.5 B) 2.5 C) 3.5 D) 4.5

Answer: <https://biology-forums.com/index.php?topic=399900>

Question 1000

Which device protects the air pump from reverse exhaust pressure?

- A) IAC valve B) PCV valve C) EGR valve D) Check valve

Answer: <https://biology-forums.com/index.php?topic=399331>

Question 1001

Analog signals from sensors are changed to digital signals for processing by the computer through which type of circuit?

- A) Analog B) PROM
C) Analog-to-digital converter D) Digital

Answer: <https://biology-forums.com/index.php?topic=399023>

Question 1002

What should be done if the fuel pressure regulator will NOT hold vacuum?

- A) Nothing; this is normal. B) Replacement
C) Adjustment D) Cleaning

Answer: <https://biology-forums.com/index.php?topic=399242>

Question 1003

Who is the person that greets the service customer and completes the work order?

- A) Service manager B) Service advisor C) Service writer D) Either B or C

Answer: <https://biology-forums.com/index.php?topic=397375>

Question 1004

Cast-iron cylinder sleeves are either cast into the aluminum block during manufacturing or pressed into the aluminum block. These sleeves are not in contact with the coolant passages and are called _____.

- A) Siamese cylinders B) Aluminum sleeves C) Wet cylinder sleeves D) Dry cylinder sleeves

Answer: <https://biology-forums.com/index.php?topic=398170>

Question 1005

Which type of trouble light is recommended for use in the shop?

- A) Incandescent B) Florescent C) LED D) Either B or C

Answer: <https://biology-forums.com/index.php?topic=397618>

Question 1006

All of these are part of the 3-minute charge test, EXCEPT _____.

- A) Charge the battery at a rate of 40 amperes for 3 minutes
- B) At the end of three minutes, read the voltmeter
- C) Connect battery charger and ammeter to the battery terminals
- D) Connect battery charger and voltmeter to the battery terminals

Answer: <https://biology-forums.com/index.php?topic=398585>

Question 1007

Two technicians are discussing the operation of a capacitor. Technician A says that a capacitor can create electricity. Technician B says that a capacitor can store electricity. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398473>

Question 1008

The high-pressure fuel pump used in gasoline direct injection (GDI) systems is powered by _____.

- A) The crankshaft
- B) The camshaft
- C) Electricity (DC motor)
- D) Electricity (AC motor)

Answer: <https://biology-forums.com/index.php?topic=399202>

Question 1009

Technician A says that all the fuel injectors on an engine should have the same electrical resistance. Technician B says that the difference between any two injectors should be less than 2 ohms. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399248>

Question 1010

Technician A says that the first step in the diagnostic process is to verify the problem (concern). Technician B says that the second step is to perform a thorough visual inspection. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399377>

Question 1011

The amount of matter in an object is described as its _____.

- A) Volume
- B) Weight
- C) Mass
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=397715>

Question 1012

Lugging an engine means _____.

- A) Wide-open throttle (WOT) in low gear above 25 miles per hour
- B) That engine speed does not increase when the throttle is opened wider
- C) Starting a cold engine and allowing it to idle for longer than five minutes
- D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=398254>

Question 1013

What law states that pressure on a confined fluid is transmitted equally in all directions and acts with equal force on equal areas?

- A) Watts' law
- B) Martin's law
- C) Pascal's law
- D) Newton's law

Answer: <https://biology-forums.com/index.php?topic=400106>

Question 1014

Setting the time base to 50 ms per division will allow the technician to view a waveform how long in duration?

- A) 50 ms
- B) 400 ms
- C) 200 ms
- D) 500 ms

Answer: <https://biology-forums.com/index.php?topic=398390>

Question 1015

Technician A says that a breakout box is often required to diagnose an antilock braking system. Technician B says that a breakout box requires to use

of a digital multimeter. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399814>

Question 1016

Technician A says that most crankshafts can be reground to be 0.010, 0.020, or 0.030 inch undersize. Technician B says that most engine bearings are constructed with an aluminum shell for strength and are covered with a tin-lead alloy. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398191>

Question 1017

Two technicians are discussing clogged EGR passages. Technician A says that clogged EGR passages can cause excessive NOx exhaust emission. Technician B says that clogged EGR passages can cause the engine to ping (spark knock or detonation). Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399305>

Question 1018

Which EVAP valve is subject to rust and corrosion more than all of the others?

- A) Vacuum control valve B) Roll over check valve
C) Purge valve D) Vent valve

Answer: <https://biology-forums.com/index.php?topic=399286>

Question 1019

A tire is worn excessively on both edges. The most likely cause of this type of tire wear is _____.

- A) Overinflation B) Excessive radial runout
C) Underinflation D) Excessive axial runout

Answer: <https://biology-forums.com/index.php?topic=399893>

Question 1020

What two things can a vehicle computer actually perform (output)?

- A) Calculate and vary temperature B) Control fuel and timing only
C) Turn something on or turn something off D) Store and process information

Answer: <https://biology-forums.com/index.php?topic=399022>

Question 1021

The vacuum hose from the fuel-pressure regulator was removed from the regulator and gasoline dripped out of the hose. Technician A says that this is normal and that everything is okay. Technician B says that one or more of the injectors may be defective, causing the fuel to get into the hose. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399236>

Question 1022

Technician A says that a lack of lubrication on the back of the disc brake pads can cause brake noise. Technician B says that pads that are not correctly crimped to the caliper housing can cause brake noise. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399712>

Question 1023

Technician A says that most states will allow landfills to dispose of whole tires with a permit. Technician B says that landfills must shred tires before disposal. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397544>

Question 1024

Which of these smoke types indicates excessive fuel being burned in the combustion chamber?

- A) Grey B) Blue C) White D) Black

Answer: <https://biology-forums.com/index.php?topic=398016>

Question 1025

Two technicians are discussing the duties of a shop foreman and a service manager. Technician A says that a shop foreman diagnoses vehicle problems. Technician B says that the service manager usually repairs vehicles. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397374>

Question 1026

Technician A says that all tires sold for passenger vehicle use must be approved by the DOT. Technician B says that the DOT code will indicate the build date of the tire. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399860>

Question 1027

Technician A says that the red brake warning light can be turned on if a difference in pressure is detected by the pressure differential switch. Technician B says that the red brake warning light can be turned on if the brake fluid level sensor detected low brake fluid level. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399554>

Question 1028

Technician A says that silent chains are quieter than roller chains and do not stretch with use. Technician B says that on overhead valve engines, the camshaft is usually placed in the block above the crankshaft. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398125>

Question 1029

A typical disc brake caliper overhaul (OH) kit usually includes what parts?

- A) Replacement caliper piston and dust boot
B) Dust boot, return spring, and caliper seal
C) Disc brake pad clips, dust boot, and caliper piston assembly
D) Square-cut O-ring seal and dust boot

Answer: <https://biology-forums.com/index.php?topic=399711>

Question 1030

Many manufacturers specify some degree of _____ toe.

- A) Zero B) Positive C) Negative D) None of these

Answer: <https://biology-forums.com/index.php?topic=400139>

Question 1031

Which mode of operation results in a richer air-fuel mixture near the spark plug?

- A) Stratified B) Stoichiometric C) Homogeneous D) Knock protection

Answer: <https://biology-forums.com/index.php?topic=399207>

Question 1032

Impact wrenches should be used with _____.

- A) Chrome sockets B) Impact sockets C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397622>

Question 1033

Two technicians are discussing exhaust check valves used in SAI systems. Technician A says that they are used to prevent the output from the SAI pump from entering the intake manifold. Technician B says the check valves are used to keep the exhaust from entering the AIR pump. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399325>

Question 1034

Some hybrid air conditioning systems use an electrically driven compressor that uses a special lubricant. What precaution should be taken when

servicing these systems?

- A) A special gauge set B) Low pressure pump
C) A dedicated recycling machine for the HEV D) Extra refrigerant filters

Answer: <https://biology-forums.com/index.php?topic=399457>

Question 1035

Technician A says that if a PCV valve rattles, then it is okay and does not need to be replaced. Technician B says that if a PCV valve does not rattle, it should be replaced. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399322>

Question 1036

Older engines that use flat-bottom lifters should use oil (or an additive) that has enough _____.

- A) ZDDP (zinc) B) Polyalphaolefin (POA)
C) Diesters D) Viscosity

Answer: <https://biology-forums.com/index.php?topic=397936>

Question 1037

Technician A says that daytime running lights (DRLs) light the headlights, usually at reduced intensity, whenever the engine is running. Technician B says high-intensity discharge (HID) headlights are brighter and have a yellow tint. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398679>

Question 1038

Specifications for diesel fuel include _____.

- A) Cloud point B) Flash point C) Pour point D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398944>

Question 1039

A tire has a recommended pressure of 32 PSI. The TPMS should light the lamp when the pressure in this tire reaches _____.

- A) 26 PSI B) 24 PSI C) 30 PSI D) 27 PSI

Answer: <https://biology-forums.com/index.php?topic=399891>

Question 1040

Two technicians are discussing a fuel gauge on a General motors vehicle. Technician A says that if the ground wire connection to fuel tank sending unit becomes rusty or corroded, the fuel gauge will read higher than normal. Technician B says that when the power lead to the fuel tank sending unit is disconnected from the tank unit and grounded (ignition on), the fuel gauge should go to empty. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398687>

Question 1041

A transistor can _____.

- A) Throttle B) Amplify C) Switch on and off D) Do all of the above

Answer: <https://biology-forums.com/index.php?topic=398511>

Question 1042

Technician A says that hydraulic pressure affects transmission shift points. Technician B says that hydraulic pressure affects the feel of transmission shifts. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400354>

Question 1043

Pad extensions may be needed when hoisting what type of vehicle?

- A) Small cars B) Pickup trucks C) Vans D) Either B or C

Answer: <https://biology-forums.com/index.php?topic=397645>

Question 1044

A diagnostic trouble code (DTC) has been set for a fault with the lateral acceleration sensor or circuit. What test could be performed to check if the

sensor is working?

- A) Disconnect the sensor and hold it sideways to see if the scan tool reads 0.0 G
- B) Disconnect the sensor and hold it sideways to see if the scan tool reads 1.0 G
- C) Unplug it and see if the scan tool reads 1.0 G
- D) Drive the vehicle in a circle to see if the scan tool reads 0.0 G

Answer: <https://biology-forums.com/index.php?topic=399834>

Question 1045

What two primary sensors does the PCM use to check the catalytic converter?

- A) Catalytic converter temperature sensor and rear oxygen sensor
- B) Pre-cat oxygen sensor and MAF
- C) Pre-cat and post-cat oxygen sensor
- D) MAP and TP

Answer: <https://biology-forums.com/index.php?topic=399341>

Question 1046

If a solvent ingredient name includes "_____", it is likely to be hazardous.

- A) "fluor" B) "chlor" C) Either A or B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397547>

Question 1047

A power steering pressure gauge is being used to diagnose a system problem on a rack and pinion system. When the wheels are turned all the way left, a pressure reading less than specification is found. When the gauge valve is closed, the pressure reading is within specifications. Technician A says that the pump pressure regulator is bad. Technician B says that there is a problem in the rack assembly. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400105>

Question 1048

The abbreviation HEV stands for _____.

- A) Heated electrolyte valve B) Hybrid electric vehicle
- C) High energy voltage D) None of these are correct

Answer: <https://biology-forums.com/index.php?topic=399427>

Question 1049

All of the gasses are measured in percentages EXCEPT _____.

- A) CO B) O₂ C) CO₂ D) HC

Answer: <https://biology-forums.com/index.php?topic=399267>

Question 1050

Nitrous oxide injection adds _____ allowing the engine to burn more fuel.

- A) HC B) Oxygen C) CO₂ D) NO_x

Answer: <https://biology-forums.com/index.php?topic=398001>

Question 1051

A rear drum brake is being inspected. The primary shoe is not contacting the anchor pin at the top. Technician A says that this is normal. Technician B says that the parking brake cable may be adjusted too tight or is stuck. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399735>

Question 1052

If the tie rod ends become worn, which angle is most affected?

- A) Caster B) SAI C) Camber D) Toe

Answer: <https://biology-forums.com/index.php?topic=400148>

Question 1053

Oil with a high viscosity has a _____ resistance to flow than oil with a lower viscosity.

- A) Higher B) Equal C) Lower D) None of these

Answer: <https://biology-forums.com/index.php?topic=397943>

Question 1054

Technician A says a poor engine ground connection can cause electricity to flow through wheel bearings, causing damage. Technician B says using too much bearing grease may result in premature bearing failure. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399630>

Question 1055

How is diesel fuel ignited in a warm diesel engine?

- A) Spark plugs B) Heat of compression
C) Glow plugs D) Distributorless ignition system

Answer: <https://biology-forums.com/index.php?topic=397857>

Question 1056

A vehicle with an electronic ignition system (EI) has a loss of power with no engine misfiring. Technician A that says the base ignition timing may need to be adjusted. Technician B says that the exhaust system may be restricted. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399006>

Question 1057

The splines of the drive shaft yoke should be lubricated to prevent _____.

- A) Rust
B) Transmission fluid leaking from the extension housing
C) Spline bind
D) A vibration

Answer: <https://biology-forums.com/index.php?topic=400259>

Question 1058

Technician A says that the sum of the voltage drops in a series circuit should equal the source voltage. Technician B says the current (amperes) varies depending on the value of the resistance in a series circuit. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398336>

Question 1059

Two technicians are discussing the IAT sensor. Technician A says that the IAT sensor is more important to the operation of the engine (higher authority) than the ECT sensor. Technician B says that the PCM will add fuel if the IAT indicates that the incoming air temperature is cold. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399047>

Question 1060

A gasket failure caused by the movement of dissimilar materials is called _____.

- A) Corrosion B) Fretting C) Tearing D) Collapsing

Answer: <https://biology-forums.com/index.php?topic=398204>

Question 1061

Technician A says that crossovers are used to block certain frequencies to allow each type of speaker to perform its job better. Technician B says that a high-pass filter is used to block high-frequency sounds being sent to large woofer speakers, and a low-pass filter blocks low-frequency sounds being sent to tweeters. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398782>

Question 1062

Which of the following is the most correct statement about the direction of engine rotation?

- A) Most engines rotate clockwise as viewed from the front of the engine.
B) Most engines rotate counter clockwise as viewed from the front of the engine.
C) Most engines rotate counter clockwise as viewed from the non principal end of the engine.
D) Most engines rotate clockwise as viewed from the principal end of the engine.

Answer: <https://biology-forums.com/index.php?topic=397843>

Question 1063

Technician A says that intake manifolds are always made of metal. Technician B says that some intake manifolds are constructed in two parts or sections, upper and lower. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397977>

Question 1064

Technician A says that Ohm's law can be used to determine circuit current flow if total circuit resistance and total voltage are known. Technician B says that Ohm's law can be used to calculate the unknown resistance of a load in a circuit if total current and source voltage are known. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398346>

Question 1065

Technician A says that all injectors in a sequential fuel injection system often use the same power wire. Technician B says that each injector in a sequential fuel injection system should have a different ground wire. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399190>

Question 1066

What is a Tukey Honestly Significant Difference test? Why is it used?

Answer: <https://biology-forums.com/index.php?topic=408266>

Question 1067

The MAP sensor is used by the PCM to diagnose the _____ system.

- A) AC B) Injector C) O2 sensor D) EGR

Answer: <https://biology-forums.com/index.php?topic=399098>

Question 1068

If the weight of a car doubles, its kinetic energy _____.

- A) Triples B) Is cut by half C) Is cut by one-quarter D) Doubles

Answer: <https://biology-forums.com/index.php?topic=399517>

Question 1069

The maximum allowable difference between the front and rear working angle of a drive shaft is _____.

- A) 1/2 deg B) 3 deg C) 1/4 deg D) 1 deg

Answer: <https://biology-forums.com/index.php?topic=400229>

Question 1070

The Monroney label includes all of these EXCEPT _____.

- A) Optional equipment B) MSRP
C) Standard equipment D) All of these are present on the Monroney label

Answer: <https://biology-forums.com/index.php?topic=397356>

Question 1071

A center bolt is used in what type of spring?

- A) Leaf B) Coil C) Torsion bar D) All of the above

Answer: <https://biology-forums.com/index.php?topic=399928>

Question 1072

After servicing the air filter on an ETC equipped vehicle, the technician has forgotten to connect the throttle motor wiring. What will happen when the vehicle is started?

- A) The engine will perform normally, but the cruise control will not work
B) The engine will start but not idle
C) The engine will start but not accelerate; idle speed between 1200 and 1600 RPM
D) None of the above

Answer: <https://biology-forums.com/index.php?topic=399228>

Question 1073

Exploded views of components may be found in _____.

- A) Time and parts guide
- B) Service manual
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397766>

Question 1074

What could occur if thread sealant was not installed on the threads of a head bolt being installed in a wet hole in the cylinder block?

- A) Cylinder block could be cracked
- B) Head bolt would apply too much clamping force
- C) Threads would not be lubricated
- D) Coolant would leak from around the head bolt

Answer: <https://biology-forums.com/index.php?topic=398212>

Question 1075

Brakes that drag or fail to release can be caused by a _____.

- A) Failure of the residual pressure (check) valve
- B) Leaking primary cup
- C) Plugged vent port (compensating port)
- D) Leaking secondary cup

Answer: <https://biology-forums.com/index.php?topic=399537>

Question 1076

The HID lighting system consists of all of these components, EXCEPT _____.

- A) Igniter
- B) Discharge arc source
- C) Filament
- D) Ballast

Answer: <https://biology-forums.com/index.php?topic=398685>

Question 1077

The pressure at which a proportioning valve begins to limit pressure to the rear brakes is called the:

- A) Pressure limit
- B) Split point
- C) Slope
- D) Limit point

Answer: <https://biology-forums.com/index.php?topic=399564>

Question 1078

What does the "delta pressure method" mean?

- A) Activate the sensor so it broadcasts the pressure to the scan tool
- B) Using a handheld tester to read the pressure as reported by the sensor
- C) Inflating the tire to the specified pressure
- D) Change the inflation pressure

Answer: <https://biology-forums.com/index.php?topic=399883>

Question 1079

Define statistically stable (or "within statistical control"). Show examples of run charts which illustrate processes which are not statistically controlled. Discuss the pattern which indicates the process is not statistically controlled for each example.

Answer: <https://biology-forums.com/index.php?topic=408271>

Question 1080

Full floating piston pins are retained by _____.

- A) An interference fit between rod and piston pin
- B) Lock rings
- C) An interference fit between piston and piston pin
- D) A drilled hole with a roll pin

Answer: <https://biology-forums.com/index.php?topic=398142>

Question 1081

When mounting an engine to an engine stand, what grade bolt should be used?

- A) 5 or 8
- B) 1 or 4
- C) 3 or 5
- D) 4 or 7

Answer: <https://biology-forums.com/index.php?topic=397619>

Question 1082

Which step should be performed LAST when diagnosing an engine performance problem?

- A) Checking for any stored diagnostic trouble codes
- B) Checking for any technical bulletins
- C) Verify the repair
- D) Performing a thorough visual inspection

Answer: <https://biology-forums.com/index.php?topic=399380>

Question 1083

Metric fuel economy is measured in what units?

- A) Kilometers per liter
- B) Liters per 100 kilometers
- C) Miles per kilometer
- D) Miles per gallon

Answer: <https://biology-forums.com/index.php?topic=397733>

Question 1084

When a new bearing is installed _____.

- A) Install a new grease seal
- B) Before touching the bearing, wash your hands and dip your fingers in clean motor oil
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399628>

Question 1085

What makes a battery "low maintenance" or "maintenance free"?

- A) The alloy used to construct the grids
- B) The plates are constructed of different metals
- C) The battery plates are smaller, making more room for additional electrolytes
- D) The electrolyte is hydrochloric acid solution

Answer: <https://biology-forums.com/index.php?topic=398551>

Question 1086

Which safety device is used on vehicles with manual transmissions?

- A) Neutral safety switch
- B) Clutch safety switch
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398606>

Question 1087

When pressure testing an hydraulic assisted power steering system, the highest pressures were greater than 50 PSI of each other. This indicates a problem with _____.

- A) The pump rotor
- B) The flow control valve
- C) The pump vanes
- D) A defective hose

Answer: <https://biology-forums.com/index.php?topic=400091>

Question 1088

Technician A says that the bolt circle is the diameter of a circle that can be drawn through the center of each lug hole or stud. Technician B says that lug nuts have different tapers to fit different wheel lug holes. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399864>

Question 1089

Torque is expressed in units of _____.

- A) Foot-pounds per minute
- B) Pound-feet
- C) Foot-pounds
- D) Pound-feet per second

Answer: <https://biology-forums.com/index.php?topic=397832>

Question 1090

Which item is NOT important to know before starting the diagnosis of an engine performance problem?

- A) List of previous repairs
- B) Brand of engine oil used
- C) The temperature of the engine when the problem occurs
- D) Type of gasoline used

Answer: <https://biology-forums.com/index.php?topic=399378>

Question 1091

A hydraulically operated booster unit stores fluid under pressure by means of _____.

- A) A boost piston
- B) A pressure chamber
- C) An accumulator
- D) An actuator

Answer: <https://biology-forums.com/index.php?topic=399779>

Question 1092

In a typical port fuel injection system, which injectors are most subject to becoming restricted?

- A) Any of them equally
- B) The injectors at the end of the rail on a returnless system
- C) The injectors at the bends in the rail
- D) Either B or C

Answer: <https://biology-forums.com/index.php?topic=399238>

Question 1093

A typical IAT or ECT sensor reads about 3000 ohms when tested using a DMM. This resistance represents a temperature of about _____.

- A) 120°F (50°C)
- B) 70°F (20°C)
- C) 284°F (140°C)
- D) -40°F (-40°C)

Answer: <https://biology-forums.com/index.php?topic=399048>

Question 1094

What is the name of the standard test that is performed to verify ESC operation?

- A) Sine with dwell
- B) ESC plus
- C) Vehicle stability enhancement test
- D) Anti-skid test

Answer: <https://biology-forums.com/index.php?topic=399831>

Question 1095

The cylinder head bolts should be tightened (torqued) by which of these sequences?

- A) Starting at the front of the engine and torquing bolts from front to rear
- B) Four outside bolts first, then from the center out
- C) From the outside bolts to the inside bolts
- D) From the inside bolts to the outside bolts

Answer: <https://biology-forums.com/index.php?topic=398241>

Question 1096

The two basic types of direct TPMS sensors include _____.

- A) Beru and Schrader
- B) Stem mounted and banded
- C) Indirect and direct
- D) Rubber stem and aluminum stem

Answer: <https://biology-forums.com/index.php?topic=399880>

Question 1097

A misaligned connecting rod causes what type of engine wear?

- A) Ridge wear
- B) Diagonal wear on the piston skirt
- C) Barrel-shaped cylinders
- D) Cylinder taper

Answer: <https://biology-forums.com/index.php?topic=398144>

Question 1098

Technician A says that fuel filler caps with pressure and vacuum vents are used with EVAP system fuel tanks. Technician B says that using a non-vented cap on a system equipped with an evaporative emissions system may cause damage to the fuel tank. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399293>

Question 1099

Technician A says that bolts are used to attach the wheel cylinder to the backing plate. Technician B says that clips are used to attach the wheel cylinder to the backing plate. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399670>

Question 1100

Cylinder heads with four valves flow more air than those with two valves because they _____.

- A) Have a greater open area
- B) Use a higher lift camshaft
- C) Increase the velocity of the air
- D) Both A and C

Answer: <https://biology-forums.com/index.php?topic=398080>

Question 1101

Technician A says that a vehicle must have new tires in order to perform a proper alignment. Technician B says that the tires should be the same size with the same treadwear in order to perform a proper alignment. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400170>

Question 1102

When charging a lead-acid (flooded-type) battery, _____.

- A) The battery may not accept a charge for several hours, yet still be a good (serviceable) battery
B) The battery temperature should not exceed 125°F (hot to the touch)
C) The initial charging rate should be about 35 amperes for 30 minutes
D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398576>

Question 1103

Which term is used to describe pulses of air flowing from the engine out the air intake due to the time interval between intake events with a four-cylinder engine?

- A) Pressure reaction B) Reverse airflow C) Speed density D) Intake redirection

Answer: <https://biology-forums.com/index.php?topic=399182>

Question 1104

An impact screwdriver is used with what other tool?

- A) Air powered impact gun B) Hammer
C) Box end wrench D) None of these

Answer: <https://biology-forums.com/index.php?topic=397607>

Question 1105

Which component is used in some transfer cases to prevent driveline windup?

- A) Planetary gear differential
B) Viscous coupling
C) Standard bevel gear differential
D) Any of these can be used to prevent driveline windup

Answer: <https://biology-forums.com/index.php?topic=400318>

Question 1106

To help prevent vehicle wandering on a vehicle with torsion bars, the ride height should be within _____ side to side.

- A) 0.100 in. (2.5 mm) B) 0.003 in. (0.076 mm) C) 0.125 in. (3.2 mm) D) 0.050 in. (1.27 mm)

Answer: <https://biology-forums.com/index.php?topic=399959>

Question 1107

Abrasive pads or discs should be used _____.

- A) According to the specified grit size for the material being cleaned
B) But clean the part thoroughly, to wash away the abrasive material
C) On disassembled engine parts only
D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398060>

Question 1108

Technician A says refrigerant leaks are most common where components join together. Technician B says many manufacturers put leak-tracing dye in the refrigerant systems of new vehicles. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398859>

Question 1109

The drive pinion gear is positioned with a shim that is too thick. This will cause contact with the ring gear teeth too close to the _____.

- A) Face B) Flank C) Heel D) Toe

Answer: <https://biology-forums.com/index.php?topic=400280>

Question 1110

The spacer used on a drive pinion gear is used to properly position the gear so that it can correctly mesh with the _____.

- A) Ring gear
- B) Side gear
- C) Differential pinion gears
- D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=400285>

Question 1111

Which of these uses letters to represent numbers and indicates how these numbers should be added, subtracted, multiplied, or divided?

- A) A ratio
- B) A formula
- C) A diagram
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=397748>

Question 1112

Two technicians are discussing why the brake lines are coiled near the master cylinder on many vehicles. Technician A says that these coils help prevent moisture from flowing from the master cylinder to the calipers. Technician B says that they help prevent cracks that could be caused by vibrations. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399576>

Question 1113

The most common diesel exhaust emission test used in local testing programs is _____.

- A) A "Check Engine" light test
- B) The opacity test
- C) The exhaust temperature test
- D) The paper test

Answer: <https://biology-forums.com/index.php?topic=397883>

Question 1114

If the torque and horsepower readings are graphed, where do the curves cross (equal each other)?

- A) Never
- B) At 5,252 RPM
- C) At peak horsepower, which can vary from engine to engine
- D) At peak torque, which can vary from engine to engine

Answer: <https://biology-forums.com/index.php?topic=398226>

Question 1115

RTV (room temperature vulcanized) cures under which of these conditions?

- A) At room temperature
- B) Moisture in the air
- C) Without oxygen
- D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=398210>

Question 1116

A signal showing the voltage of a battery displayed on a digital storage oscilloscope (DSO) is being discussed. Technician A says that the display will show one horizontal line above the zero line. Technician B says that the display will show a line sloping upward from zero to the battery voltage level. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398389>

Question 1117

When using a fire extinguisher, what word can be used to remember what to do?

- A) LEVER
- B) FIRE
- C) PASS
- D) RED

Answer: <https://biology-forums.com/index.php?topic=397495>

Question 1118

How does changing tire diameter affect the speedometer reading?

- A) A smaller diameter tire causes the speedometer to read slower than the actual speed and less than the actual mileage on the odometer
- B) A smaller diameter tire causes the speedometer to read faster than actual speed and more than actual mileage on the odometer
- C) A larger diameter tire causes the speedometer to read faster than the actual speed and more than the actual mileage on the odometer
- D) A larger diameter tire causes the speedometer to read slower than the actual speed and more than the actual mileage on the odometer

Answer: <https://biology-forums.com/index.php?topic=398696>

Question 1119

Flasher units are being discussed. Technician A says that only a DOT-approved flasher unit should be used for turn signals. Technician B says that a parallel (variable-load) flasher will function for turn signal usage, although it will not warn the driver if a bulb burns out. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398670>

Question 1120

The following chemicals are all considered hazardous waste EXCEPT _____.

- A) Used ether-based cleaning solvents
B) Old containers used to store used cleaning solvent
C) New antifreeze
D) Cleaning solvent that has spilled onto the floor in the shop

Answer: <https://biology-forums.com/index.php?topic=397540>

Question 1121

Technician A says that performing brake repair may require special licensing in some states. Technician B says that special federal-level licensing may be required. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399504>

Question 1122

Two technicians are discussing a stepped ECT circuit. Technician A says that the sensor used for a stepped circuit is different from the one used in a non-stepped circuit. Technician B says that a stepped ECT circuit uses different internal resistance inside the PCM. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399043>

Question 1123

What part should be removed to test cylinder compression on a diesel engine?

- A) Glow plug B) Intake valve rocker arm and stud
C) Glow plug or injector D) Injector

Answer: <https://biology-forums.com/index.php?topic=397866>

Question 1124

Diesel fuel should be rated at what cetane rating?

- A) 45-50 B) 87 C) 25-30 D) 91+

Answer: <https://biology-forums.com/index.php?topic=398940>

Question 1125

Self apply of the brakes can occur if _____.

- A) The master cylinder is overfilled B) The vent port is clogged or covered
C) The replenishing port is clogged or covered D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=399540>

Question 1126

Selective catalytic reduction (SCR) uses urea injection to reduce _____ emissions.

- A) CO₂ B) NO_x C) H₂O D) CO

Answer: <https://biology-forums.com/index.php?topic=397877>

Question 1127

Technician A says a final drive ratio is a compromise between performance and vehicle speed. Technician B says a final drive ratio that provides a lesser top vehicle speed also provides for slower acceleration. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400296>

Question 1128

Which type of port fuel-injection system uses a fuel temperature and/or fuel-pressure sensor?

- A) Electronic returnless systems B) All port fuel-injected engines

C) TBI units only D) Demand delivery systems

Answer: <https://biology-forums.com/index.php?topic=399172>

Question 1129

Why is the typical rear load-leveling system connected to the ignition circuit?

- A) To prevent the system from working unless the ignition key is on
- B) To keep the compressor from running for an extended period of time
- C) To keep the system active for a given time after the ignition is switched off
- D) All of the above

Answer: <https://biology-forums.com/index.php?topic=400016>

Question 1130

What type of oil pump is driven by the crankshaft?

- A) Gerotor B) Internal/external gear
- C) External gear D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=397952>

Question 1131

Hydrogen storage tanks are usually constructed from _____.

- A) Steel B) Aluminum C) Carbon fiber D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=399467>

Question 1132

On most drum brake systems, the parking brake lever and strut transfer the pulling force of the parking brake cable against the _____.

- A) Secondary shoe B) Primary shoe

Answer: <https://biology-forums.com/index.php?topic=399731>

Question 1133

A power steering pressure test is being performed, and the pressure is higher than specifications with the engine running and the steering wheel stationary in the straight ahead position. Technician A says that a restricted high pressure line could be the cause. Technician B says that internal leakage inside the steering gear or rack and pinion unit could be the cause. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400090>

Question 1134

The hybrid vehicle control system can detect a high voltage leakage to ground by use of _____.

- A) A temperature sensing system B) A ground fault monitor system
- C) Ground noise sensors D) Air bag sensors

Answer: <https://biology-forums.com/index.php?topic=399460>

Question 1135

The following statements are all correct EXCEPT _____.

- A) Employers are required to provide material safety data sheets listing information regarding the solvents used.
- B) Unused solvents may be disposed of down the sewage drain.
- C) Solvents may enter the bloodstream by ingestion, inhalation, or physical contact.
- D) Employers are required to provide appropriate personal protective equipment for working with hazardous solvents.

Answer: <https://biology-forums.com/index.php?topic=397539>

Question 1136

Technician A says that the inner tie rod end mounts to the end of the rack on all rack and pinion systems. Technician B says that some rack and pinion systems use inner tie rod ends mounted to the center of the rack. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400085>

Question 1137

Technician A says that a heavy engine load results in high intake manifold vacuum and a high MAP sensor signal voltage. Technician B says that a manifold absolute pressure (MAP) sensor uses a perfect vacuum (zero absolute pressure) in the sensor to determine the pressure. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399090>

Question 1138

Oscilloscopes use what type of lead connector?

- A) Single conductor plugs B) Double banana plugs
C) BNC D) Banana plugs

Answer: <https://biology-forums.com/index.php?topic=398395>

Question 1139

Which of the following components measures the volume and density of the incoming air?

- A) Manifold Absolute Pressure Sensor B) Mass Air Flow Sensor
C) Oxygen Sensor D) Throttle Position Sensor

Answer: <https://biology-forums.com/index.php?topic=399110>

Question 1140

Technician A says that carbon fiber driveshafts need support bearings every 24 inches. Technician B says that carbon fiber and aluminum driveshafts reduce rotating mass and are more efficient than steel driveshafts. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400246>

Question 1141

A flex-fuel vehicle has enhanced fuel system components that include all of these EXCEPT _____.

- A) Stainless steel fuel rails B) Low temperature resistant O-rings
C) Corrosion resistant fuel pump D) Corrosion resistant fuel injectors

Answer: <https://biology-forums.com/index.php?topic=398928>

Question 1142

Technician A says that the automotive water pump is a positive displacement-type pump. Technician B says that the coolant mix should be a 50/50 split between antifreeze and water. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397917>

Question 1143

Which of these is true about checking bearing clearances using Plastigage?

- A) The cap should be torqued to factory specifications
B) The journal should be clean and oil free
C) The wider the strip means the narrower the oil clearance
D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398224>

Question 1144

The GM EV-1 was what type of vehicle?

- A) A parallel-type HEV B) Totally electric powered
C) A series-type HEV D) The first generation hybrid- electric vehicle (HEV)

Answer: <https://biology-forums.com/index.php?topic=399412>

Question 1145

The spring rate of a spring is measured in units of _____.

- A) lb. per inch B) in.-lb. C) psi D) ft.-lb.

Answer: <https://biology-forums.com/index.php?topic=399922>

Question 1146

How long is an ASE test?

- A) 4 hours 15 minutes B) 1 to 2 hours C) 3 hours 30 minutes D) 1/2 hour

Answer: <https://biology-forums.com/index.php?topic=397476>

Question 1147

Two technicians are discussing the reason that the brake fluid level in the master cylinder drops. Technician A says that it may be normal due to the wear of the disc brake pads. Technician B says that a low brake fluid level may indicate a hydraulic leak somewhere in the system. Which technician is

correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399681>

Question 1148

The first character of the vehicle identification number is the country of origin. Where was the vehicle built that has a "5" as the first character?

- A) Japan B) United States C) Canada D) Mexico

Answer: <https://biology-forums.com/index.php?topic=397785>

Question 1149

Accessory drive belt tension is determined by _____.

- A) Belt tension using a belt tension gauge
B) Torque required to rotate the tensioner using a beam type torque wrench
C) Marks on the tensioner
D) Any of the above depending on the specified procedure as found in service information

Answer: <https://biology-forums.com/index.php?topic=397814>

Question 1150

Permanent magnets are normally used for what part of the starter?

- A) The armature B) The commutator C) The field coils D) The solenoid

Answer: <https://biology-forums.com/index.php?topic=398599>

Question 1151

Which of the following should you know to get a correct replacement driveshaft?

- A) Vehicle year B) Vehicle model
C) Vehicle make D) Center to center distance between U-joints

Answer: <https://biology-forums.com/index.php?topic=400247>

Question 1152

Technician A says that a deployed airbag can be repacked, reused, and reinstalled in the vehicle. Technician B says that a deployed airbag should be discarded and replaced with an entire new assembly. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398754>

Question 1153

Clutch pack clearance can be changed, if not correct, by using a selective _____.

- A) Snap ring B) Piston
C) Pressure plate D) One of the above, depending on the unit

Answer: <https://biology-forums.com/index.php?topic=400383>

Question 1154

The front brakes on a vehicle do more work than do the rear brakes. Technician A says that this is because the front wheel cylinders are closer to the master cylinder than are the rear wheel cylinders. Technician B says that this is because the weight of a vehicle shifts to the front during a stop. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399516>

Question 1155

Heat transfer is improved from the coolant to the air when the _____.

- A) Temperature difference is great B) Temperature difference is small
C) Coolant is 95% antifreeze D) Both A and C

Answer: <https://biology-forums.com/index.php?topic=397905>

Question 1156

The spark plug threads in the cylinder head should be cleaned using a(an) _____ before installing new plugs.

- A) Old toothbrush B) Thread chaser C) Wire brush D) Tap

Answer: <https://biology-forums.com/index.php?topic=398998>

Question 1157

A short block includes the _____.

- A) Pistons, rods, and rod bearings B) Block
C) Crankshaft and main bearings D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398040>

Question 1158

Type _____ DTCs are set by non-emission related diagnostic tests.

- A) B and C B) C and D C) A and C D) A or B

Answer: <https://biology-forums.com/index.php?topic=399410>

Question 1159

Technician A says that the net pay amount is usually higher than the gross pay amount. Technician B says that the gross pay amount is usually higher than the net pay. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397405>

Question 1160

Which sensor provides input regarding cornering forces?

- A) Potentiometer B) Lateral accelerometer
C) Yaw sensor D) None of these

Answer: <https://biology-forums.com/index.php?topic=400032>

Question 1161

What term is used to describe combustion gasses leaking past cylinder rings?

- A) Sludge B) Crankcase build-up C) Blow by D) Manifold pressure

Answer: <https://biology-forums.com/index.php?topic=399335>

Question 1162

Which is NOT a part of a disc brake?

- A) Splash shield B) Caliper C) Rotor D) Spindle

Answer: <https://biology-forums.com/index.php?topic=399702>

Question 1163

What type of actuator is used on electronically controlled suspensions?

- A) Electric motor B) Solenoid C) Either A or B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400015>

Question 1164

DOT 4 brake fluid _____.

- A) Costs about twice as much as DOT 3 B) Absorbs water vapor at a slower rate than DOT 3
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397823>

Question 1165

The automotive battery is based on the principle of _____.

- A) Piezoelectric energy B) Photoelectricity C) Electrochemistry D) None of these

Answer: <https://biology-forums.com/index.php?topic=398300>

Question 1166

A "chirping" noise is heard while the vehicle is moving forward, but stops when the brakes are applied. Technician A says that the noise is likely caused by the disc brake pad wear sensors. Technician B says the noise is likely a wheel bearing because the noise stops when the brakes are applied. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399708>

Question 1167

Many factory installed superchargers are equipped with a _____ that allows intake air to flow directly into the intake manifold bypassing the supercharger.

- A) Throttle control valve B) Bypass valve
C) Control valve D) Wastegate

Answer: <https://biology-forums.com/index.php?topic=398000>

Question 1168

The _____ converts linear motion of the pistons into rotary motion.

- A) Camshaft B) Connecting rod C) Crankshaft D) None of these

Answer: <https://biology-forums.com/index.php?topic=397847>

Question 1169

Technician A says that the alignment sensor heads only need to be compensated once per day. Technician B says that the alignment sensor heads should be compensated every time they are mounted on a wheel. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400174>

Question 1170

Which statement is correct?

- A) Dirt is most likely to float on top of the fuel.
B) Port fuel injectors inject fuel above the throttle plate.
C) Dirt is most likely to be found near the bottom of the fuel tank.
D) Throttle body injectors inject fuel below the throttle plate.

Answer: <https://biology-forums.com/index.php?topic=399178>

Question 1171

Drum brake shoes _____.

- A) Can have one shoe that is longer than the other on the same wheel brake
B) Can have bonded linings
C) Can have riveted linings
D) All of the above are possible

Answer: <https://biology-forums.com/index.php?topic=399637>

Question 1172

Which switching device uses LEDs?

- A) Hall effect B) Magnetic retractor C) Pickup coil D) Optical sensor

Answer: <https://biology-forums.com/index.php?topic=398979>

Question 1173

Technician A says that all valves rotate to help prevent the valves and seats from burning. Technician B says that positive type valve rotators are only used on intake valves. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398114>

Question 1174

Describe a run chart and give an example. Refer to the values on each of the axes as you describe the run chart.

Answer: <https://biology-forums.com/index.php?topic=408270>

Question 1175

Which is NOT a function of an ultracapacitor?

- A) Can pass DC current B) Can be charged with DC current
C) Discharges DC current D) Can pass AC current

Answer: <https://biology-forums.com/index.php?topic=399465>

Question 1176

Technician A says that the front wheels are able to rotate through 60-80 degrees of rotation. Technician B says that turning the steering wheel all the way left then all the way right is turning the wheel "lock to lock." Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400059>

Question 1177

Technician A says that the HVAC doors in an automatic system may be vacuum operated. Technician B says that the HVAC doors in an automatic system may be operated by electric servos. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398837>

Question 1178

Technician A says that the location of the catalytic converter is not important. Technician B says that the catalytic converter should be positioned as far from the engine as possible. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399349>

Question 1179

Which four wheel steering system is best for highway lane changes?

- A) Negative phase mode B) Same phase steering
C) Opposite phase steering D) None of these

Answer: <https://biology-forums.com/index.php?topic=400087>

Question 1180

The canister vent valve is normally _____.

- A) Closed B) Open

Answer: <https://biology-forums.com/index.php?topic=399299>

Question 1181

Which tool should be used on Ford OBD I systems to retrieve DTCs if the STAR tester is NOT available?

- A) Continuity tester B) Digital voltmeter
C) Analog voltmeter D) None of these is correct

Answer: <https://biology-forums.com/index.php?topic=399406>

Question 1182

Which statement is TRUE about thermostats?

- A) The temperature marked on the thermostat is the temperature at which the thermostat should be fully open
B) Thermostats often cause overheating
C) The temperature marked on the thermostat is a temperature at which the thermostat should start to open.
D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=397910>

Question 1183

Technician A says that charging system testing requires that the battery be at least 75% charged. Technician B says that a digital multimeter can not be used to test charging system voltage. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398662>

Question 1184

Technician A says that electronic conductance testing can determine CCA, state-of-charge, and voltage of the battery. Technician B says that electronic conductance testing can determine if there is a bad cell, requiring battery replacement. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398582>

Question 1185

The best piece of information available to the technician for identifying an engine is the _____.

- A) VECI label B) VIN C) Casting number D) None of these

Answer: <https://biology-forums.com/index.php?topic=397802>

Question 1186

Which lining does most of the braking on a dual-servo brake?

- A) Rear (rearward facing) B) Front (forward facing)

C) Both contribute equally D) Depends on the speed of the vehicle

Answer: <https://biology-forums.com/index.php?topic=399638>

Question 1187

Technician A says that regular replacement shock absorbers will raise the rear of a vehicle that is sagging down. Technician B says that replacement springs will be required to restore the proper ride height. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399926>

Question 1188

The master cylinder is able to move about how much brake fluid during each brake application?

A) One teaspoon B) One cu. in. C) 50 ml D) One tablespoon

Answer: <https://biology-forums.com/index.php?topic=399528>

Question 1189

The aspect ratio of a tire means _____.

A) Its width to diameter of a wheel ratio B) The ratio of height to width

C) The ratio of rolling resistance D) The ratio of width to height

Answer: <https://biology-forums.com/index.php?topic=399847>

Question 1190

Operating an alternator in a vehicle with a defective battery can harm the _____.

A) Stator B) Brushes

C) Voltage regulator D) Diodes (rectifier bridge)

Answer: <https://biology-forums.com/index.php?topic=398639>

Question 1191

The type of brake fluid most often recommended by vehicle manufacturers is _____.

A) DOT 5.1 B) DOT 4 C) DOT 3 D) DOT 5

Answer: <https://biology-forums.com/index.php?topic=399570>

Question 1192

Technician A says that DOT 5 brake fluid can be added to DOT 3 brake fluid. Technician B says that it is wise to purchase brake fluid that is in metal rather than plastic containers. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399572>

Question 1193

Which part in the steering column allows for changes in the angle between the upper and lower shafts?

A) Column cover B) Flexible coupling C) Universal joint D) Collapsible section

Answer: <https://biology-forums.com/index.php?topic=400037>

Question 1194

A TP sensor is which of these sensor types?

A) Potentiometer B) Rheostat C) Voltage generating D) Piezoelectric

Answer: <https://biology-forums.com/index.php?topic=399062>

Question 1195

By looking at the way diagnostic trouble codes are formatted, which DTC could indicate that the gas cap is loose or defective?

A) P1301 B) P0442 C) P1603 D) P0221

Answer: <https://biology-forums.com/index.php?topic=399364>

Question 1196

Technician A says that the diodes regulate the alternator output voltage. Technician B says that the field current can be computer controlled. Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398631>

Question 1197

Independent service facilities often provide in-service training for their technicians.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=397386>

Question 1198

Technician A says digital wheel speed sensors produce a variable frequency AC voltage. Technician B says digital wheel speed sensors use a DC reference voltage supply and produce a square wave signal. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399805>

Question 1199

Technician A says that the pump check valve should hold system pressure for at least five minutes after the pump is shut off. Technician B says that a defective check valve could cause long cranking time. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399163>

Question 1200

Technician A says that brake pedal freeplay may be as little as 1/8 inch. Technician B says that brake pedal freeplay allows the master cylinder pistons to fully retract. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399543>

Question 1201

When seating a bead of a tire, never exceed _____ psi.

- A) 40 B) 60 C) 50 D) 30

Answer: <https://biology-forums.com/index.php?topic=399894>

Question 1202

Lower than specified oil pressure is measured on a high mileage engine. Technician A says that worn main or rod bearings could be the cause. Technician B says that a clogged oil pump pickup screen could be the cause. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397953>

Question 1203

Housekeeping duties of a technician can include _____.

- A) Keeping the work area clean and organized B) Keeping items off the floor whenever possible
C) Cleaning the floor D) All of the above

Answer: <https://biology-forums.com/index.php?topic=397433>

Question 1204

What is the factory scan tool for Chrysler brand vehicles equipped with CAN?

- A) Master Tech B) NGS C) Tech 2 D) Star Scan

Answer: <https://biology-forums.com/index.php?topic=399383>

Question 1205

How much brake fluid is in a typical master cylinder reservoir?

- A) One gallon
B) 15 to 20 liters
C) Enough to allow all brakes to become completely worn
D) One pint

Answer: <https://biology-forums.com/index.php?topic=399530>

Question 1206

Technician A says balance shafts are used to counteract vibration created in the engine. Technician B says proper balancing of the engine is important for smooth operation. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398193>

Question 1207

Explain why in a two-way ANOVA there cannot be an interaction for sample data with one observation per cell.

Answer: <https://biology-forums.com/index.php?topic=408260>

Question 1208

Technician A says that other temperature sensors that operate like the ECT include transmission fluid temperature (TFT), and engine oil temperature sensors. Technician B says that all temperature sensors increase in resistance as the temperature decreases. Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399054>

Question 1209

Always adjust the _____ before starting the engine to help prevent thrust bearing damage.

A) Driveshaft angle B) Brake pedal travel C) Clutch free play D) Shift linkage

Answer: <https://biology-forums.com/index.php?topic=398269>

Question 1210

Technician A says that all metal-to-metal contact areas of the disc brake system should be lubricated with special brake grease for proper operation.

Technician B says that the lubrication helps reduce brake noise (squeal). Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399718>

Question 1211

Piston ring end gap can be increased by _____.

A) Installing oversize rings B) Knurling the piston
C) Filing the ring to make gap larger D) Sleeving the cylinder

Answer: <https://biology-forums.com/index.php?topic=398240>

Question 1212

Technician A says most engine flywheels are lightweight to avoid causing inertia. Technician B says most engine flywheels are made of hardened forged steel to absorb the heat of clutch operation. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400190>

Question 1213

If a #1157 bulb were installed in a left front parking light socket instead of a #2057 bulb, what would be the most likely result?

A) Left parking light would be slightly brighter B) Left parking light would be slightly dimmer
C) Left turn signal would flash faster D) Left turn signal would flash slower

Answer: <https://biology-forums.com/index.php?topic=398673>

Question 1214

All overhead valve engines _____.

A) Have the valves located in the cylinder head B) Use the camshaft to close the valves
C) Operate by the two-stroke cycle D) Use an overhead camshaft

Answer: <https://biology-forums.com/index.php?topic=397828>

Question 1215

The most common cause of premature bearing failure is _____.

A) Overloading B) No lubrication C) Dirt D) Misalignment

Answer: <https://biology-forums.com/index.php?topic=398238>

Question 1216

If resistance is reduced in a series circuit, _____ current will flow.

A) Less B) More C) The same D) None of these

Answer: <https://biology-forums.com/index.php?topic=398342>

Question 1217

Technician A says that some wheel speed sensors are enclosed in a wheel bearing assembly. Technician B says that some wheel speed sensors are exposed to possible damage from road debris. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399796>

Question 1218

Which of these oils is recommended by General Motors for diesel engines, beginning in 2011?

- A) LL-01 B) Dexos 1 C) Dexos 2 D) GM 6094M

Answer: <https://biology-forums.com/index.php?topic=397945>

Question 1219

What term describes a catalytic converter as it reaches its effective temperature?

- A) Initiation B) Consumption C) Light off D) None of these

Answer: <https://biology-forums.com/index.php?topic=399351>

Question 1220

Liquefied petroleum gas (LPG) is also called _____.

- A) Propane B) E85 C) P-series fuel D) M85

Answer: <https://biology-forums.com/index.php?topic=398916>

Question 1221

Technician A says that the purpose and function of the cooling system is to maintain proper engine operating temperature. Technician B says that the water pump controls engine coolant temperature by opening at its rated opening temperature to allow coolant to flow through the radiator. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397914>

Question 1222

Which type of hybrid is capable of propelling the vehicle by just using the electric motor?

- A) Medium hybrid B) Strong (full) hybrid C) Mild hybrid D) BAS type

Answer: <https://biology-forums.com/index.php?topic=399414>

Question 1223

Six volt systems require _____ wires than 12 volt systems.

- A) Larger B) Equal C) Smaller D) None of these

Answer: <https://biology-forums.com/index.php?topic=398445>

Question 1224

Which item is a computer output device?

- A) Fuel injector B) Evaporative emission control solenoid
C) Transmission shift solenoid D) All of the above

Answer: <https://biology-forums.com/index.php?topic=399020>

Question 1225

Most carbon resistors indicate their electrical resistance by

- A) Shape B) Printed numbers indicating resistance in ohms
C) Color coded markings D) None of these

Answer: <https://biology-forums.com/index.php?topic=398299>

Question 1226

When using statistical software packages, the critical value is typically not given. What method is used to determine whether you reject or fail to reject the null hypothesis?

Answer: <https://biology-forums.com/index.php?topic=408259>

Question 1227

A P0106 DTC is being discussed. Technician A says a damaged or missing MAP sensor O-ring could be the cause. Technician B says a defective MAP sensor could be the cause. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399095>

Question 1228

Which of the following is NOT used as CV joint boot material?

- A) Silicone rubber B) Natural rubber
C) Hard thermoplastic D) All of these are used as boot materials

Answer: <https://biology-forums.com/index.php?topic=400243>

Question 1229

0.187 subtracted from 3.53458 is _____.

- A) 3.34758 B) 1.66458 C) 3.51588 D) None of these

Answer: <https://biology-forums.com/index.php?topic=397752>

Question 1230

When removing a bearing and race from a component _____.

- A) A bearing splitter may be needed to remove the inner race
B) Cover the work while using a press
C) Both A and B
D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397632>

Question 1231

Commonly damaged areas of a vehicle during hoisting include _____.

- A) Exhaust systems B) Tires or body panels C) Rocker panels D) All of these

Answer: <https://biology-forums.com/index.php?topic=397644>

Question 1232

Diesel fuel mixed with ethanol is called _____ in the United States

- A) E-Diesel B) FTD C) Diesohol D) GTL Diesel

Answer: <https://biology-forums.com/index.php?topic=398948>

Question 1233

Never remove more material from the tip of a valve than _____ inches.

- A) 0.020 B) 3070.050 C) 0.002 D) 0.001

Answer: <https://biology-forums.com/index.php?topic=398100>

Question 1234

Technician A says that a symptom may be corrected without correcting the cause of the problem. Technician B says that verifying the repair will determine if the root cause of the problem has been repaired. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399401>

Question 1235

If two insulated wires were to melt together where the copper conductors touched each other, the type of failure would be called _____.

- A) An open B) A short to voltage C) A short to ground D) A floating ground

Answer: <https://biology-forums.com/index.php?topic=398303>

Question 1236

Technician A says that vehicles with electronic returnless fuel systems use pulse width modulation to power the fuel pump and maintain fuel pressure. Technician B says that the electronic returnless fuel system uses a power transistor to control the fuel pump. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399194>

Question 1237

A vehicle fails an emission test due to excessive carbon monoxide indicating a rich air fuel mixture. Technician A says that a saturated charcoal canister could be the cause. Technician B says that a stuck-closed EVAP purge solenoid could be the cause. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399295>

Question 1238

Which of the following is the LEAST LIKELY to cause an engine noise?

- A) Vacuum leak
- B) Carbon on the pistons
- C) Loose accessory drive belt
- D) Cracked exhaust manifold

Answer: <https://biology-forums.com/index.php?topic=398005>

Question 1239

What is the most common location for a hybrid vehicle high voltage battery pack?

- A) Under the hood
- B) Under the passenger side floor boards
- C) Under or behind the rear seat
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=398589>

Question 1240

Technician A says that resistance increases as the diameter of a conductor increases. Technician B says that resistance increases as the temperature of a conductor increases. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398292>

Question 1241

The backlash exceeds specifications. The technician should position the ring gear _____.

- A) Closer to the drive pinion gear
- B) Further from the drive pinion gear

Answer: <https://biology-forums.com/index.php?topic=400281>

Question 1242

Where is the hydraulic clutch master cylinder located?

- A) It is an integral part of the brake master cylinder
- B) Engine compartment
- C) In the passenger compartment floorboard behind the clutch pedal
- D) Outside of the transmission case

Answer: <https://biology-forums.com/index.php?topic=400202>

Question 1243

Technician A says that the recommended method of tire rotation is side to side. Technician B says that the recommended method of tire rotation is the modified X method. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399907>

Question 1244

Which of the following is an acceptable working angle for a RWD driveshaft?

- A) 0 degrees
- B) 1 degree
- C) 6 degrees
- D) None of these are correct.

Answer: <https://biology-forums.com/index.php?topic=400239>

Question 1245

Technician A says that a 3 x 5 card should be held against the oil fill opening if the PCV system is operating correctly. Technician B says that if a PCV valve rattles, it definitely is good. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399333>

Question 1246

Which organization scores the test answer sheets?

- A) NATEF
- B) ACT
- C) SAE
- D) ASE

Answer: <https://biology-forums.com/index.php?topic=397477>

Question 1247

Technician A says that the caliper mounts to the steering knuckle. Technician B says that the caliper mounts to the anchor plate. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399704>

Question 1248

Which type nut is used with a cotter pin?

A) Castle nut B) Nylon ring nut C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397579>

Question 1249

What factors determine the friction coefficient?

A) Surface area, friction material B) Surface area, surface thickness
C) Friction material, surface area D) Friction material, surface finish

Answer: <https://biology-forums.com/index.php?topic=399521>

Question 1250

An engine designed to burn CNG may include what design modifications?

A) Lower valve lift B) Lighter and thinner pistons
C) Increased compression ratio D) None of these

Answer: <https://biology-forums.com/index.php?topic=398927>

Question 1251

Technician A says that voltage is usually indicated on the horizontal display axis. Technician B says that time is usually indicated on the horizontal display axis. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398401>

Question 1252

A engine dynamometer is used to measure engine _____.

A) Mass B) Torque C) Weight D) Horsepower

Answer: <https://biology-forums.com/index.php?topic=398248>

Question 1253

Technician A says that the diameter of a bolt is the same as the wrench size used to remove or install the fastener. Technician B says that the length is measured from the top of the head of the bolt to the end of the bolt. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397552>

Question 1254

The proper term for Vise Grips is _____.

A) Slip-joint pliers B) Side cuts
C) Locking pliers D) Multigroove adjustable pliers

Answer: <https://biology-forums.com/index.php?topic=397583>

Question 1255

Technician A says that starwheel adjusters use different threads (left and right-handed) for the left and right sides of the vehicle. Technician B says that the threads and end caps of the adjusters should be lubricated with brake grease before being installed. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399660>

Question 1256

What could happen if the meter leads were connected to the positive and negative terminals of the battery while the meter and leads were set to read amperes?

A) Would display OL B) Would read volts instead of amperes
C) Would display 0.00 D) Could blow an internal fuse or damage the meter

Answer: <https://biology-forums.com/index.php?topic=398366>

Question 1257

Technician A says that, with some antilock braking systems, the diagnostic trouble code may be lost if the ignition is turned off before retrieving the

code. Technician B says that some antilock braking systems require that a terminal be grounded to cause the amber ABS warning lamp to flash diagnostic trouble codes. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399812>

Question 1258

Which of the following reduce tire adhesion (traction)?

- A) Wheel tramp B) Shimmy
C) Unsprung weight D) All of these reduce tire adhesion

Answer: <https://biology-forums.com/index.php?topic=400001>

Question 1259

Which statement below regarding airborne asbestos is correct?

- A) It is easy to tell which friction materials will produce asbestos dust.
B) HEPA filter vacuums are not sufficient to prevent airborne asbestos contamination.
C) Large and small asbestos particles must all be disposed of as hazardous waste.
D) The EPA requires that asbestos materials be "wetted" to prevent airborne particles.

Answer: <https://biology-forums.com/index.php?topic=397535>

Question 1260

Technician A says that all dual clutch automatic transmissions use two dry clutches. Technician B says that some automatic transmissions do not use planetary gear sets. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400323>

Question 1261

Which is greater, $13/16$ or $5/8$?

- A) $5/8$ B) $13/16$ C) they are equal

Answer: <https://biology-forums.com/index.php?topic=397747>

Question 1262

A green wrench symbol is displayed on the dash. What does this mean?

- A) A fault in the ETC in a Chrysler has been detected
B) A fault in the ETC in a Honda has been detected
C) A fault in the ETC in a General Motors vehicle has been detected
D) A fault in the ETC in a Ford has been detected

Answer: <https://biology-forums.com/index.php?topic=399223>

Question 1263

Brake fade caused by water can occur _____.

- A) Whenever it rains and the roads are wet or damp
B) Due to moisture in the air on a humid day
C) Only if the vehicle is driven in water above the centerline of the axle
D) Whenever driving through water puddles or during a severe rainstorm

Answer: <https://biology-forums.com/index.php?topic=399512>

Question 1264

A growler is used to test what starter component?

- A) Solenoid B) Commutator C) Field coils D) Armature

Answer: <https://biology-forums.com/index.php?topic=398611>

Question 1265

A series circuit has three resistors of 4 ohms each. The voltage drop across each resistor is 4 volts. Technician A says that the source voltage is 12 volts. Technician B says that the total resistance is 18 ohms. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398333>

Question 1266

Technician A says that, as wear occurs, camber usually becomes negative. Technician B says that, as steering linkage wear occurs, toe usually

becomes toe-out from an original toe-in specification. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400158>

Question 1267

Technician A says that if the ring end gap is excessive, blowby gases can travel past the rings and into the crankcase. Technician B says that piston rings usually include three compression rings at the top of the piston and an oil control ring below the compression rings. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398150>

Question 1268

The ratio of front to rear hydraulic system pressure supplied to the rear brakes by the proportioning valve is called _____.

- A) Pressure limit B) Split point C) Slope D) Limit point

Answer: <https://biology-forums.com/index.php?topic=399565>

Question 1269

If only one power door lock is inoperative, a possible cause is _____.

- A) Defective (open) fuse for the control circuit
B) Defective door lock motor or solenoid
C) Defective (open) circuit breaker for the power circuit
D) Poor ground connection at the power door lock relay

Answer: <https://biology-forums.com/index.php?topic=398734>

Question 1270

What causes the nitrogen and oxygen in the air to combine and form NO_x?

- A) Chemical reaction in the catalytic converter B) Any spark will cause this to occur
C) Heat above 2,500°F (1,370°C) D) Sunlight

Answer: <https://biology-forums.com/index.php?topic=399300>

Question 1271

Two technicians are discussing one-way clutches. Technician A says that a sprag and a roller are two types of one-way clutches. Technician B says that a one-way clutch could be installed upside down and cause the automatic transmission/transaxle to not function correctly. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400340>

Question 1272

Technician A says that any technician that handles automotive refrigerant must be certified in knowledge of regulations by an EPA approved agency. Technician B says that recycling equipment must be properly approved. Who is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398818>

Question 1273

A hypereutectic piston has a higher _____.

- A) Silicon content B) Tin content
C) Nickel content D) Weight than an aluminum piston

Answer: <https://biology-forums.com/index.php?topic=398140>

Question 1274

Where can emission hose routing information be found?

- A) VECI B) Vehicle safety certification label
C) VIN D) None of these

Answer: <https://biology-forums.com/index.php?topic=397794>

Question 1275

Flexible brake hose should be inspected for all of the following except _____.

- A) Worn outer ribs B) Cracks C) Leakage D) Twisted

Answer: <https://biology-forums.com/index.php?topic=399577>

Question 1276

A vehicle with TPMS has the tire pressure warning light on steady. The owner says that all 4 tires have the correct pressure. Technician A says that the spare tire pressure could be low. Technician B says that a sensor may be bad. Who is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399889>

Question 1277

Which design of MAP sensor produces a frequency (digital) output signal?

- A) Silicon-diaphragm strain gauge B) Ceramic disc
C) Piezoresistivity design D) Capacitor-capsule

Answer: <https://biology-forums.com/index.php?topic=399081>

Question 1278

OBD II has been on all passenger vehicles in the United States since _____.

- A) 1986 B) 2000 C) 1996 D) 1991

Answer: <https://biology-forums.com/index.php?topic=399360>

Question 1279

Which type fire extinguisher may damage electronic components?

- A) CO2 B) Dry chemical C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397514>

Question 1280

Semimetallic brake pads are made by a process called _____.

- A) Sintering B) Grating C) Composition D) Melting

Answer: <https://biology-forums.com/index.php?topic=399688>

Question 1281

Which type of port fuel injection groups the injectors into two groups, with each group firing once per crankshaft revolution?

- A) Throttle body injection B) Simultaneous double fired
C) Sequential fired D) Gang double fired

Answer: <https://biology-forums.com/index.php?topic=399186>

Question 1282

Which type of connecting rod needs to be heated to install the piston pin?

- A) Floating B) Interference fit C) PM rods D) Forged

Answer: <https://biology-forums.com/index.php?topic=398147>

Question 1283

The three phases of diesel ignition include _____.

- A) Slow burn, fast burn, slow burn
B) Glow plug ignition, ignition delay, controlled combustion
C) Ignition delay, rapid combustion, controlled combustion
D) Glow plug ignition, fast burn, slow burn

Answer: <https://biology-forums.com/index.php?topic=397860>

Question 1284

A biodiesel blend that has 5% biodiesel in conventional fuel is called _____.

- A) D95 B) B5 C) B95 D) D5

Answer: <https://biology-forums.com/index.php?topic=398946>

Question 1285

Why are the EGR gases cooled before entering the engine on some engines?

- A) To help prevent the exhaust from slowing down
B) To prevent heating the air-fuel mixture in the cylinder
C) Cool exhaust gas is more effective at controlling NOx emissions
D) To prevent damage to the intake valves

Answer: <https://biology-forums.com/index.php?topic=397964>

Question 1286

New tie rods are being installed. Technician A says to tighten the retaining nuts to specification and then loosen, if needed, to align the cotter pin hole. Technician B says to tighten farther to align the cotter key hole. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400071>

Question 1287

A water pump can fail to provide the proper amount of coolant flow through the cooling system if what has happened?

- A) The bearing is noisy
B) A bearing failure has caused the shaft to become loose
C) The impeller blades are worn or slipping on the shaft
D) The coolant is leaking from the weep hole

Answer: <https://biology-forums.com/index.php?topic=398024>

Question 1288

The following statements are all correct EXCEPT _____

- A) OBD-II vehicles require monitoring of the EGR system.
B) Many vehicles use the MAP sensor to monitor EGR operation.
C) The MIL will be turned on after the second failure.
D) Linear EGR systems require exhaust backpressure.

Answer: <https://biology-forums.com/index.php?topic=399309>

Question 1289

A vehicle burning CNG loses about _____ percent power as compared to gasoline.

- A) Zero B) 40 C) 85 D) 10

Answer: <https://biology-forums.com/index.php?topic=398925>

Question 1290

Technician A says extra care should be taken when removing and installing the torque converter assembly onto the input shaft, to avoid damaging seals. Technician B says that the transmission oil cooler should be flushed whenever metal particles are found during transmission overhaul. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400388>

Question 1291

Aqueous-based cleaning means _____.

- A) Strong chemical-based B) Abrasive-based
C) Water-based D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398062>

Question 1292

The MAF sensor on a General Motors 3800 V-6 is being tested for contamination. Technician says that the sensor should show over 100 grams per second on a scan tool display when the accelerator is depressed to WOT (wide open throttle) on a running engine. Technician B says that the output frequency should exceed 7000 Hz when the accelerator pedal is depressed to WOT on a running engine. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399105>

Question 1293

Cross camber and cross caster should be within 1/2 degree from one side to the other.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=400166>

Question 1294

As the percentage of antifreeze in the coolant increases, _____.

- A) The freeze point decreases (up to a point) B) The heat transfer increases
C) The boiling point decreases D) All of the above occurs

Answer: <https://biology-forums.com/index.php?topic=397886>

Question 1295

On some engines equipped with a timing belt, the belt also may drive the _____.

- A) Alternator B) AC compressor C) Water pump D) Power steering

Answer: <https://biology-forums.com/index.php?topic=398034>

Question 1296

A splayed crankshaft is a crankshaft that _____.

- A) Has offset rod journals B) Is internally balanced
C) Has offset main bearing journals D) Is externally balanced

Answer: <https://biology-forums.com/index.php?topic=398179>

Question 1297

Which substances can be used as abrasives for cleaning?

- A) Steel shot B) Walnut shells C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397511>

Question 1298

Using the modified X tire rotation method on a front wheel drive vehicle would place the right front tire on the _____.

- A) Left rear B) Right rear C) Left front

Answer: <https://biology-forums.com/index.php?topic=397815>

Question 1299

Which of these is true regarding the work schedule of a typical automotive service technician?

- A) It is generally a 40 hour work week B) Evening work may be required
C) Weekend work may be required D) All of these

Answer: <https://biology-forums.com/index.php?topic=397390>

Question 1300

Technician A says that if the opposite DTC can be set, the problem is the component itself. Technician B says that if the opposite DTC cannot be set, the problem is with the wiring or grounds. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399381>

Question 1301

Which of the following gear ratios represents overdrive?

- A) 0.73:1 B) 3.73:1 C) 1:1 D) None of these

Answer: <https://biology-forums.com/index.php?topic=397741>

Question 1302

Technician A says that phone conversations are more positive if you smile when you talk. Technician B says that it doesn't matter if you smile during a phone conversation because the customer can't see you. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397447>

Question 1303

An electrical circuit uses 12 volts and has a current flow of 2 amps. What is the wattage?

- A) 24 watts B) 12 watts C) 6 watts D) None of these

Answer: <https://biology-forums.com/index.php?topic=398322>

Question 1304

A wide band oxygen sensor is capable of detecting the air-fuel mixture in the exhaust from _____ (rich) to _____ (lean).

- A) 10:1 to 23:1 B) 13:1 to 16.7:1 C) 12:1 to 15:1 D) 8:1 to 18:1

Answer: <https://biology-forums.com/index.php?topic=399125>

Question 1305

Why must flat-bottom lifter camshafts be broken in at a fast idle?

- A) The cam in a cam-in-block engine is only lubricated by splash oil

- B) The flat-bottom of the lifters must become slightly concave in order to rotate
C) Both A and B are correct
D) Neither A nor B are correct

Answer: <https://biology-forums.com/index.php?topic=398260>

Question 1306

Digital meters functions for automotive testing should include _____.

- A) Diode test B) DC amps up to at least 10A
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398382>

Question 1307

A rheostat usually has how many wires?

- A) Two B) Four C) Three D) None of these

Answer: <https://biology-forums.com/index.php?topic=398295>

Question 1308

Technician A says that the 3 wires on the TP sensor include a 5-volt reference voltage from the PCM. Technician B says that a TP sensor is a three-wire variable resistor called a rheostat. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399070>

Question 1309

Two technicians are discussing fuse testing. Technician A says that a test light should light on both test points of the fuse if it OK. Technician B says that the fuse is defective if a test light only lights on one side of the fuse. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398413>

Question 1310

What is NOT a duty of a general service technician?

- A) Diagnose the customer's concern B) Perform vehicle repair procedures
C) Have the customer sign the work order D) Order the parts needed

Answer: <https://biology-forums.com/index.php?topic=397372>

Question 1311

Typical intake valve stem-to-guide clearance is _____.

- A) 0.015 to 0.020 inch (0.4 to 0.5 mm) B) 0.001 to 0.004 inch (0.025 to 0.076 mm)
C) 0.005 to 0.010 inch (0.13 to 0.25 mm) D) 0.030 to 0.045 inch (0.8 to 0.10 mm)

Answer: <https://biology-forums.com/index.php?topic=398086>

Question 1312

Technician A says that a crowfoot socket is used with a ratchet. Technician B says that a crowfoot socket is used with an extension. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397599>

Question 1313

B20 biodiesel has how much regular diesel fuel?

- A) 80 percent B) 40 percent C) 100 percent D) 20 percent

Answer: <https://biology-forums.com/index.php?topic=398937>

Question 1314

The ratio of on time relative to the period of the complete cycle is the _____.

- A) Duty cycle B) Pulse width modulation
C) Amplitude D) Frequency

Answer: <https://biology-forums.com/index.php?topic=399024>

Question 1315

A locked wheel _____ to the road surface than a rolling wheel.

- A) Has greater traction B) Has less traction

Answer: <https://biology-forums.com/index.php?topic=399492>

Question 1316

Technician A says that valve stem height should be checked and the top of the valve ground, if necessary. Technician B says that after a thorough cleaning, the cylinder head should be assembled using new valve stem seals. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398113>

Question 1317

A TFT sensor is a _____.

- A) voltage generator. B) switch. C) thermistor. D) potentiometer.

Answer: <https://biology-forums.com/index.php?topic=400360>

Question 1318

The Hydro-Boost brake booster uses what type of fluid to multiply brake pedal force?

- A) Brake fluid B) Power steering fluid C) Transmission fluid D) None of these

Answer: <https://biology-forums.com/index.php?topic=399786>

Question 1319

Technician A says that one advantage of hydraulics compared to a mechanical linkage is that fluid has no fixed shape. Technician B says that hydraulics offer the opportunity to multiply the input force. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400107>

Question 1320

In a hydraulic clutch, the slave cylinder _____.

- A) Is pushed by fluid pressure B) Is connected to the clutch pedal
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400198>

Question 1321

A typical EGR pintle-position sensor is what type of sensor?

- A) Piezoelectric B) Wheatstone bridge C) Rheostat D) Potentiometer

Answer: <https://biology-forums.com/index.php?topic=399303>

Question 1322

When performing an alignment, which angle is the most important for tire wear?

- A) SAI B) Camber C) Caster D) Toe

Answer: <https://biology-forums.com/index.php?topic=400117>

Question 1323

The block deck is the _____.

- A) Bottom (pan rail) of the block B) Top surface of the block
C) Engine mounts are attached to the block D) Valley surface of a V-type engine

Answer: <https://biology-forums.com/index.php?topic=398155>

Question 1324

UART uses a _____ signal that toggles between 0 volts and _____.

- A) 8 volts B) 7 volts C) 5 volts D) 12 volts

Answer: <https://biology-forums.com/index.php?topic=398531>

Question 1325

Which type of cleaning uses small living organisms to eat hydrocarbons?

- A) High pressure spray B) Solvent C) Microbe D) None of these

Answer: <https://biology-forums.com/index.php?topic=397508>

Question 1326

Which device produces electrical current resulting from the heating of two dissimilar conductors?

- A) Thermocouple B) Ammeter C) Volt meter D) None of these

Answer: <https://biology-forums.com/index.php?topic=398290>

Question 1327

An oil pressure warning lamp is usually controlled by which of these devices?

- A) Ground sensor B) Sensor unit C) Voltage drop D) Manual switch

Answer: <https://biology-forums.com/index.php?topic=398706>

Question 1328

Which type of glove is damaged by contact with petroleum products or solvents?

- A) Latex B) Nitrile C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397499>

Question 1329

Which agency has the strictest emission standards?

- A) EPA B) CARB C) SAE D) None of these

Answer: <https://biology-forums.com/index.php?topic=397807>

Question 1330

What type of information is commonly included in the owners manual that would be a benefit to the service technician?

- A) Tire pressure monitoring system reset procedures B) Maintenance items specifications
C) Maintenance reminder light reset procedures D) All of these

Answer: <https://biology-forums.com/index.php?topic=397753>

Question 1331

A series circuit has two 10-ohm bulbs. A third 10-ohm bulb is added in series. Technician A says that the three bulbs will be dimmer than when only two bulbs were in the circuit. Technician B says that the current in the circuit will increase. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398335>

Question 1332

Technician A says that most factory service manuals cover several years and models. Technician B says that most aftermarket service manuals only cover one year and model vehicle. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397764>

Question 1333

Diesel emission control systems require ultra-low sulfur diesel fuel starting in _____.

- A) 2007 B) 1992 C) 1996 D) None of these

Answer: <https://biology-forums.com/index.php?topic=398954>

Question 1334

The coolant passages around the cylinders are often called _____.

- A) Cooling jackets B) Water passages C) Water holes D) Cooling pockets

Answer: <https://biology-forums.com/index.php?topic=398171>

Question 1335

Four wheel hydraulic brake systems were introduced in _____.

- A) 1900 B) 1922 C) 1893 D) 1940

Answer: <https://biology-forums.com/index.php?topic=397364>

Question 1336

Technician A says that a braided ground wire is best to use for audio equipment to help reduce interference. Technician B says to use insulated 14 gauge or larger ground wire to reduce interference. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398772>

Question 1337

Which of the following is NOT part of a stall test procedure?

- A) Shift the transmission into neutral and run the engine at 1000 rpm for at least 60-seconds following a stall test.
- B) Run the engine at 2000 rpm for 2 minutes then turn OFF the key
- C) Connect a tachometer and block the drive wheels
- D) Place the gear selector in gear and depress the accelerator making sure that the parking and service brakes are firmly applied

Answer: <https://biology-forums.com/index.php?topic=400374>

Question 1338

Two technicians are discussing ways of removing a caliper piston. Technician A says to use compressed air. Technician B says to use large pliers. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399713>

Question 1339

The backing plate should be replaced if the shoe contact areas (pads or ledges) are worn more than _____.

- A) 1/2 in. (13 mm)
- B) 1/16 in. (2 mm)
- C) 1/4 in. (7 mm)
- D) 1/8 in. (4 mm)

Answer: <https://biology-forums.com/index.php?topic=399657>

Question 1340

How many brushes are typically used in the automotive starter?

- A) 8
- B) 4
- C) 2
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=398608>

Question 1341

Which of these tools is used for checking a diesel injector nozzle for proper spray pattern?

- A) Injector test
- B) Pop tester
- C) Scan tool
- D) Pattern tester

Answer: <https://biology-forums.com/index.php?topic=397876>

Question 1342

When testing a relay using an ohmmeter, which two terminals should be touched to measure the coil resistance?

- A) 86 and 87
- B) 86 and 85
- C) 87a and 87
- D) 87 and 30

Answer: <https://biology-forums.com/index.php?topic=398455>

Question 1343

Which of the following is a disadvantage of a solid rear axle?

- A) Increased proportion of unsprung weight
- B) Reduced tire adhesion
- C) Side to side shock transference
- D) All of these are disadvantages of a solid rear axle

Answer: <https://biology-forums.com/index.php?topic=400000>

Question 1344

A brake pedal feels spongy when depressed. Technician A says that a defective hydraulic brake booster could be the cause. Technician B says that a defective vacuum brake booster could be the cause. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399776>

Question 1345

If caster is adjustable for a given vehicle, how does the technician adjust it?

- A) Turning an eccentric cam
- B) Changing the length of the strut rod
- C) Adding or removing shims
- D) All of these are ways to adjust caster

Answer: <https://biology-forums.com/index.php?topic=400138>

Question 1346

What type signal is produced by a potentiometer?

- A) Pulse width modulated
- B) Digital
- C) Analog
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=400030>

Question 1347

The throttle plate is spring loaded to hold the throttle slightly open how far?

- A) 22% to 28% B) 8% to 10% C) 3% to 5% D) 16% to 20%

Answer: <https://biology-forums.com/index.php?topic=399218>

Question 1348

Two technicians are discussing automatic transmissions/transaxles. Technician A says that it is normal for a vehicle to move slightly when the gear selector is in the "drive" position with the brakes released. Technician B says that the stator may be defective if the vehicle moves while in gear when the engine is at idle speed. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400320>

Question 1349

Producing liquid fuel from coal or natural gas usually uses which process?

- A) Syncrude B) Fischer-Tropsch
C) P-series D) Methanol to gasoline (MTG)

Answer: <https://biology-forums.com/index.php?topic=398919>

Question 1350

Two technicians are discussing testing MAP sensors. Technician A says that the MAP sensor voltage on a General Motors vehicle at idle should be about 1.0 volt. Technician B says that the MAP sensor frequency on a Ford vehicle at idle should be about 105–108 Hz. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399085>

Question 1351

Some vehicle manufacturers recommend repairing integral guides with _____.

- A) Replacement valve guides B) Valve guide inserts
C) OS stem valves D) Knurling

Answer: <https://biology-forums.com/index.php?topic=398085>

Question 1352

Which compound gearset uses a planetary gearset in front of a Ravigneaux gearset?

- A) Simpson gearset B) Lapelletier gearset C) Ravigneaux gearset D) Simple gearset

Answer: <https://biology-forums.com/index.php?topic=400328>

Question 1353

Technician A uses a steel gasket scraper on aluminum engine parts. Technician B uses a plastic or wood scraper on aluminum engine parts. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398031>

Question 1354

All of these can cause a starter not to rotate, EXCEPT _____.

- A) Defective armature B) Defective starter drive
C) Shorted field coils D) Seized engine crankshaft

Answer: <https://biology-forums.com/index.php?topic=398630>

Question 1355

A five-speed transmission is in third gear. Which is correct?

- A) The 1-2 synchronizer is in neutral B) The 3-4 synchronizer is moved to engage third gear
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400217>

Question 1356

Which of these symptoms may be caused by excessive ethanol in the fuel?

- A) Late transmission shifting B) Rough idle or stall

C) Poor AC performance D) High idle speed

Answer: <https://biology-forums.com/index.php?topic=398909>

Question 1357

How does a waste-spark ignition system fire the spark plugs?

- A) The polarity reverses at each firing (flip flops)
- B) The same plug always is fired straight or reverse polarity
- C) The waste spark is sent to the cylinder next to the cylinder being fired
- D) Both A and C

Answer: <https://biology-forums.com/index.php?topic=398963>

Question 1358

An actuator can be capable of how many positions?

- A) Three B) Two C) Variable D) All of these

Answer: <https://biology-forums.com/index.php?topic=398826>

Question 1359

Technician A says that a disadvantage of drum brakes is that they require an adjusting mechanism to maintain the proper clearance between the shoe and drum. Technician B says that a disadvantage of drum brakes is that they pull the car to one side during braking under certain conditions. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399650>

Question 1360

A non-drive-wheel bearing adjustment procedure includes a final spindle nut tightening torque of _____.

- A) 5 lb.-in. B) 12 to 15 lb.-ft. plus 1/16 in. turn
- C) 12 to 30 lb.-ft. D) Finger tight

Answer: <https://biology-forums.com/index.php?topic=399618>

Question 1361

Ultrasonic testing is used to test _____.

- A) For crack in the block B) Surface finish of the cylinder bores
- C) Cylinder wall thickness D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=398162>

Question 1362

Technician A says that many vehicle manufacturers recommend that wheel cylinders not be honed because of the special surface finish inside the bore. Technician B says that some experts recommend that the wheel cylinders be replaced every time the brake linings are replaced. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399661>

Question 1363

If a closed container of gas is compressed the volume of the gas will _____ and the temperature will _____.

- A) Decrease; increase B) Decrease; remain the same
- C) Increase; increase D) Remain the same; become cooler

Answer: <https://biology-forums.com/index.php?topic=397724>

Question 1364

To prevent catalytic converter damage, do not crank a flooded engine longer than _____ seconds.

- A) 60 B) 15 C) 40 D) 10

Answer: <https://biology-forums.com/index.php?topic=399355>

Question 1365

A voltmeter should be connected to the circuit being tested _____.

- A) In series B) In Parallel
- C) Only when no power is flowing D) Both A and C

Answer: <https://biology-forums.com/index.php?topic=398362>

Question 1366

Which symbol is used to indicate safe lifting points?

- A) Square B) Circle C) Triangle D) None of these

Answer: <https://biology-forums.com/index.php?topic=397652>

Question 1367

Glow plugs should have high resistance when _____ and lower resistance when _____.

- A) Cold/warm B) Wet/dry C) Dry/wet D) Warm/cold

Answer: <https://biology-forums.com/index.php?topic=397864>

Question 1368

Technician A says to check tire radial runout to determine the cause of high speed vibration. Technician B says to check tire axial runout to determine the cause of high speed vibration. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399909>

Question 1369

Another name for a ground is _____.

- A) Reference low B) Zero C) Logic low D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398516>

Question 1370

Technician A says that customer pay rate is sometimes higher than the factory flat rate. Technician B says that the factory flat rate times are usually longer (given more time) compared to aftermarket flat rate time guides. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397432>

Question 1371

After a non-drive-wheel bearing has been properly adjusted, the wheel should have how much end play?

- A) Zero B) 1/16 to 3/32 in. C) 0.10 to 0.30 in. D) 0.001 to 0.005 in.

Answer: <https://biology-forums.com/index.php?topic=399619>

Question 1372

All of the following are types of clips EXCEPT _____.

- A) E clip B) Internal snap ring C) Cotter D) C clip

Answer: <https://biology-forums.com/index.php?topic=397559>

Question 1373

Technician A says that trailing arms run perpendicular to the center line of the chassis. Technician B says that trailing arms run parallel to the center line of the chassis. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400004>

Question 1374

All of the following will shut off the high voltage to components and circuits EXCEPT _____.

- A) Turning the ignition off B) Disconnecting the 12- volt auxiliary battery
C) Opening the drivers door D) Removing the main fuse, relay, or HV plug

Answer: <https://biology-forums.com/index.php?topic=399435>

Question 1375

Which type lever increases force and changes direction?

- A) First class B) Second class C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397717>

Question 1376

Technician A says that a wye-wound stator produces more maximum output than the same alternator equipped with a delta-wound stator. Technician B says that an alternator equipped with a delta-wound stator produces more maximum output than a wye-wound stator. Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398640>

Question 1377

Which character of the VIN indicates the year of the vehicle?

A) First B) Eighth C) Tenth D) None of these

Answer: <https://biology-forums.com/index.php?topic=397792>

Question 1378

Four-piston calipers are _____.

A) Easier to service than single-piston calipers
B) Used on high performance vehicles
C) More commonly used than single-piston calipers
D) Not as strong and powerful as single-piston calipers

Answer: <https://biology-forums.com/index.php?topic=399700>

Question 1379

Which of these statements is NOT true regarding new vehicle dealerships?

A) They accept very little warranty repair work
B) They pay for in service technician training on new model vehicles and systems
C) They usually provide uniforms for service technicians
D) They often own special service tools specific to their vehicles

Answer: <https://biology-forums.com/index.php?topic=397381>

Question 1380

More than one signal can be carried by a radio wave using a process called _____.

A) Amplitude Modulation B) Frequency Modulation
C) Sideband operation D) Frontband operation

Answer: <https://biology-forums.com/index.php?topic=398787>

Question 1381

Technician A says that a leaf spring suspension requires control arms to brace and position the rear axle. Technician B says that leaf springs help locate the axle under the vehicle. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399993>

Question 1382

Two types of superchargers include _____.

A) Turbine and piston B) Roots-type and centrifugal
C) Rotary and reciprocating D) Double and single acting

Answer: <https://biology-forums.com/index.php?topic=397983>

Question 1383

A typical drum brake backing-plate has how many shoe support pads (also called ledges)?

A) 3 B) 6 C) 4 D) 8

Answer: <https://biology-forums.com/index.php?topic=399641>

Question 1384

Two technicians are discussing a floating-type disc brake caliper. Technician A says that if the caliper slides are corroded, one pad may wear more than the other pad on the same wheel brake. Technician B says that if a caliper slide is corroded, reduced braking may occur. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399682>

Question 1385

Technician A says that CO and HC levels should increase if the AIR hoses are pinched off. Technician B says that a defective drive belt may cause AIR system problems. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399329>

Question 1386

Technician A says that some vehicle manufacturers recommend an ILSAC grade be used in the engine. Technician B says that an oil with the specified API rating and SAE viscosity rating should be used in an engine. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397932>

Question 1387

Which of the following is true regarding service hotlines?

- A) The hotline technician often is a specialist in the particular manufacturer in question
B) A monthly fee is charged for a specific amount of access time
C) Both A and B
D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397776>

Question 1388

Technician A says automatic transmissions can shift gears without requiring an interruption of powerflow. Technician B says automatic transmissions use synchronizers instead of planetary gearsets. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400337>

Question 1389

Technician A says that inflation pressures vary with outside temperature. Technician B says that under-inflated tires cause reduced fuel economy. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399911>

Question 1390

Technician A says that magnets are used in some crankshaft position sensors. Technician B says magnets are used in potentiometers. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398497>

Question 1391

How much is engine torque increased or multiplied when a typical torque converter is at stall speed?

- A) Ten times B) Double C) Eight times D) Four times

Answer: <https://biology-forums.com/index.php?topic=400329>

Question 1392

A collapsible spacer is used in some differentials to provide _____.

- A) The proper preload for the drive pinion bearings
B) A lubrication path to the drive pinion bearing
C) The proper preload for the side bearings
D) The proper amount of slippage in a limited slip differential

Answer: <https://biology-forums.com/index.php?topic=400283>

Question 1393

Technician A says that vehicle warranties are limited by mileage. Technician B says that vehicle warranties are limited by vehicle age. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397378>

Question 1394

In which of the following conditions is EGR not commanded?

- A) Idle B) Wide open throttle
C) Cold engine D) All of these are correct.

Answer: <https://biology-forums.com/index.php?topic=399312>

Question 1395

Which of these is LEAST likely to be used by professional shops?

- A) Two post frame engaging hoist B) Drive-up ramps
C) Floor jacks D) None of these

Answer: <https://biology-forums.com/index.php?topic=397656>

Question 1396

A resume should be how many pages long?

- A) 3 B) 2 C) 1 D) 4 or more

Answer: <https://biology-forums.com/index.php?topic=397398>

Question 1397

Technician A says that a semi-independent rear suspension is used with live rear axles. Technician B says that the semi-independent rear suspension is used only with non-drive rear axles. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400008>

Question 1398

Which of these sensors does the TP sensor back up if the PCM determines that a failure has occurred?

- A) Oxygen sensor B) MAF sensor C) MAP sensor D) Either B or C

Answer: <https://biology-forums.com/index.php?topic=399064>

Question 1399

Technician A says that a cracked exhaust manifold can affect engine operation. Technician B says that a leaking lower intake manifold gasket could cause a vacuum leak. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397970>

Question 1400

Ethanol can be produced from what products?

- A) Sugarcane B) Switchgrass C) Corn D) Any of the above

Answer: <https://biology-forums.com/index.php?topic=398910>

Question 1401

The TTY method of tightening bolts involves which of these processes?

- A) Torquing to one-half specifications, then to three-quarter torque, then to full torque
B) Turning all bolts the same number of turns
C) Torquing to specifications and loosening by a specified number of degrees
D) Turning bolts a specified number of degrees after initial torque

Answer: <https://biology-forums.com/index.php?topic=398242>

Question 1402

Technician A says that if fuel pump pressure is correct, fuel pump volume will be correct as well. Technician B says that a fuel pump may produce specified pressure but below specified volume. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399256>

Question 1403

Cylinder taper and out of round should be measured _____.

- A) Near the bottom of piston travel B) Just below the ridge
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397681>

Question 1404

Technician A says electronic leak detectors make a noise when a leak is detected. Technician B says that often the same leak detector can be used for R-12 and R 134a. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398858>

Question 1405

Very large and very small numbers are frequently represented using _____

- A) Mathematical formulas B) Diagrams
C) Ratios D) Scientific notation

Answer: <https://biology-forums.com/index.php?topic=397749>

Question 1406

A 20 amp fuse is normally what color?

- A) Red B) Green C) Blue D) Yellow

Answer: <https://biology-forums.com/index.php?topic=398448>

Question 1407

Two technicians are discussing what could be the cause of slow cranking and excessive current draw. Technician A says that an engine mechanical fault could be the cause. Technician B says that the starter motor could be binding or defective. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398612>

Question 1408

Technician A says that warm up cycles are used to erase DTCs and freeze frame data. Technician B says that OBD II requires the diagnostic system to monitor all emission-related components and systems. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399374>

Question 1409

Technician A says that some FWD vehicles use unequal length front drive shafts called half shafts. Technician B says that unequal length drive shafts may cause a pull during hard acceleration called torque steer. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400242>

Question 1410

What is the purpose of the expansion device located at the evaporator inlet?

- A) Meters the correct amount of refrigerant flow into the evaporator
B) Provide a restriction to create pressure in the refrigerant high side
C) Both A and B
D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398810>

Question 1411

Technician A says that an AGM battery can be charged with any battery charger. Technician B says that an AGM battery requires a charger specially designed for charging AGM batteries. Who is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398588>

Question 1412

Technician A says that you should guess if you do not know the correct answer. Technician B says that ASE will send you the correct answers to the questions you missed with your test results. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397465>

Question 1413

According to the text, a large glass of water should be consumed how long before the test?

- A) 1-2 hours B) 15 minutes C) 6 hours D) Immediately

Answer: <https://biology-forums.com/index.php?topic=397483>

Question 1414

Which type lubricant is usually NOT used in a manual transmission/ transaxle?

- A) High temperature chassis grease B) ATF
C) Engine oil D) SAE 80W-90 gear lube

Answer: <https://biology-forums.com/index.php?topic=400215>

Question 1415

A customer complains that the heater works sometimes, but sometimes only cold air comes out while driving. Technician A says that the water pump is defective. Technician B says that the cooling system could be low on coolant. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398866>

Question 1416

Technician A says that the tire pressure can be 5 PSI below specification but not turn on the TPMS warning lamp. Technician B says that vehicles with TPMS do not need to have the tire pressure checked monthly. Who is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399892>

Question 1417

The ABS computer uses the _____ signal from a wheel speed sensor.

- A) Resistance B) Frequency C) Voltage D) Electro-magnetic

Answer: <https://biology-forums.com/index.php?topic=399800>

Question 1418

A capacitor used in a timer circuit discharges through a(an) _____.

- A) Resistor B) Fuse C) Element D) RAM

Answer: <https://biology-forums.com/index.php?topic=398486>

Question 1419

What GDI operating mode is used to burn sulfur from the NOx catalyst?

- A) Stratified mode B) Stratified heating mode
C) Homogeneous stratified mode D) None of these

Answer: <https://biology-forums.com/index.php?topic=399215>

Question 1420

Technician A says that starwheel adjusters use different threads (left and right handed) for the left and right sides of the vehicle. Technician B says that a pawl controls the teeth of the starwheel adjuster. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399634>

Question 1421

Two technicians are discussing testing coolant for proper pH. Technician A says that coolant has a pH above 7 when new and becomes lower with use in an engine. Technician B says that OAT and HOAT coolants have a lower pH when new compared to the old green IAT coolant. Which technician is correct?

- A) Technician A only B) Technician B only
C) Both technician A and B D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397892>

Question 1422

Which type of motor or engine produces more torque at lower speed?

- A) Gasoline B) Electric

Answer: <https://biology-forums.com/index.php?topic=399426>

Question 1423

The brushes are used to transfer electrical power between _____.

- A) The solenoid and the field coils B) The armature and the solenoid
C) Field coils and the armature D) The commutator and the segments

Answer: <https://biology-forums.com/index.php?topic=398595>

Question 1424

Which type of variable effort steering design uses a variable bi-directional magnetic rotary actuator built into the steering rack?

- A) Magnasteer B) TFE C) EVO D) SSS

Answer: <https://biology-forums.com/index.php?topic=400112>

Question 1425

When using a socket and ratchet to loosen a fastener, always _____.

- A) Pull the ratchet B) Push the ratchet

Answer: <https://biology-forums.com/index.php?topic=397603>

Question 1426

Old style cork cover gaskets have been replaced by _____.

- A) Cork-rubber gaskets B) Rubber coated metal gaskets
C) Synthetic rubber gaskets D) All of these

Answer: <https://biology-forums.com/index.php?topic=398214>

Question 1427

All of these are types of injector circuits EXCEPT _____.

- A) Peak and hold B) Saturated switch
C) Pulse width modulated D) All of these are types of injector circuits.

Answer: <https://biology-forums.com/index.php?topic=399252>

Question 1428

What is the maximum allowable steering wheel angle variation from straight?

- A) 3 degrees B) 1/2 degree C) 0 degrees D) 6 degrees

Answer: <https://biology-forums.com/index.php?topic=400162>

Question 1429

Which of these components sends a pulse signal to an electronic ignition module?

- A) Coil wire B) Resistor C) Ignition coil D) Pickup coil

Answer: <https://biology-forums.com/index.php?topic=399002>

Question 1430

Technician A says that a break-out box (BOB) can be used to access the BUS terminals while a scan tool is used to activate the modules. Technician B says that a 38-cavity diagnostic connector is found on many BMW and Mercedes vehicles under the hood. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398538>

Question 1431

Distributor ignition systems can be triggered by a _____.

- A) Hall effect sensor B) Magnetic sensor C) Spark sensor D) Either A or B

Answer: <https://biology-forums.com/index.php?topic=398960>

Question 1432

On an engine with variable cam timing, the cam timing can be changed by use of _____.

- A) A spline cam phaser B) A vane cam phaser C) Either of these D) Neither of these

Answer: <https://biology-forums.com/index.php?topic=398132>

Question 1433

Technician A says interference from cell phone or CB antennae may disrupt the ABS control unit. Technician B says many system problems can be located with a thorough visual inspection. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399827>

Question 1434

A technician is checking the operation of the electronic throttle control system by depressing the accelerator pedal with the ignition in the on (run) position (engine off). What is the most likely result if the system is functioning correctly?

- A) The throttle will open partially but not all the way
B) No throttle movement

C) The throttle will perform a self test by closing and then opening to the default position
D) The throttle goes to wide open when the accelerator pedal is depressed all the way
Answer: <https://biology-forums.com/index.php?topic=399224>

Question 1435

Technician A says that the bleeder valves must be located at the highest part of the caliper or wheel cylinder. Technician B says that the bleeder valves have a hole in the center. Which technician is correct?
A) Technician A only B) Technician B only C) Both technicians D) Neither technician
Answer: <https://biology-forums.com/index.php?topic=399602>

Question 1436

Most diesel fuel is what grade?
A) Grade #1 B) Grade #3 C) Grade #4 D) Grade #2
Answer: <https://biology-forums.com/index.php?topic=398938>

Question 1437

What supports the pinion gear in the differential housing?
A) Rubber bushings B) Bronze bushings
C) Tapered roller bearings D) Ball bearings
Answer: <https://biology-forums.com/index.php?topic=400289>

Question 1438

Why do many port fuel injected engines use long intake runners?
A) To increase low RPM torque B) To reduce exhaust emissions
C) To heat the incoming air D) To increase high RPM power
Answer: <https://biology-forums.com/index.php?topic=397967>

Question 1439

When replacing a compressor clutch, what is the critical measurement?
A) Air gap B) Current draw
C) High-pressure pressure D) Voltage drop
Answer: <https://biology-forums.com/index.php?topic=398875>

Question 1440

If an insulated wire rubbed through a part of the insulation and the wire conductor touched the steel body of a vehicle, the type of failure would be called _____.
A) A short to ground B) A chassis ground C) A short to voltage D) An open
Answer: <https://biology-forums.com/index.php?topic=398302>

Question 1441

Which airflow sensor has a dampening chamber?
A) A hot film MAF B) A hot wire MAF
C) A Karman Vortex sensor D) A vane airflow sensor
Answer: <https://biology-forums.com/index.php?topic=399106>

Question 1442

The strength or classification of a bolt is known as _____.
A) Grade B) Gauge C) Pitch D) None of these
Answer: <https://biology-forums.com/index.php?topic=397563>

Question 1443

When the Hydro-Boost is in the release phase _____.
A) The vent port is opened B) The fluid port to the power chamber is closed
C) Both A and B D) Neither A nor B
Answer: <https://biology-forums.com/index.php?topic=399782>

Question 1444

What can the driver do to reduce the possibility of brake fade caused by heat?

- A) Ride the brakes to keep the shoes and pads against the drum or rotor
- B) Select a lower transmission gear
- C) Pump the brake pedal while descending a steep hill
- D) Shift the transmission into neutral and allow the vehicle to coast down long or steep hills

Answer: <https://biology-forums.com/index.php?topic=399513>

Question 1445

Which of these is an explosive (pyrotechnic) device that tightens the seat belt as the airbag is being deployed?

- A) Igniter
- B) Clockspring
- C) Belt switch
- D) Pretensioner

Answer: <https://biology-forums.com/index.php?topic=398763>

Question 1446

Technician A says that measuring SAI and included angle can help in diagnosing poor cradle alignment. Technician B says that alignment angles can often reveal bent suspension or steering components. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400144>

Question 1447

If the transmission fluid temperature (TFT) sensor indicates cold automatic transmission fluid, what would the PCM do to the shifts?

- A) Disable torque converter clutch; normal shift points
- B) Normal shifts but overdrive will be disabled
- C) Normal shifts and normal operation of the torque converter clutch
- D) Delayed shift points and torque converter clutch disabled

Answer: <https://biology-forums.com/index.php?topic=399049>

Question 1448

In a circuit with a short to ground _____.

- A) Some or all of the electrical loads may no longer work
- B) No current flows past the point of the short
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398318>

Question 1449

What is the purpose of any brake repair?

- A) Replace pads and linings
- B) Restore like-new performance
- C) Restore proper brake pedal height
- D) Reduce noise during braking

Answer: <https://biology-forums.com/index.php?topic=399498>

Question 1450

Technician A says that a scan tool may be required to retrieve data and diagnostic trouble codes from some antilock braking systems. Technician B says that a jumper wire can be used to retrieve diagnostic codes on some antilock braking systems. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399813>

Question 1451

After a TP sensor has been tested using the min/max function on a DMM, a reading of zero volts is displayed. What does this reading indicate?

- A) The TP sensor is open at one point during the test
- B) The TP sensor is shorted
- C) The TP sensor signal is shorted to 5-volt reference
- D) Both B and C are possible

Answer: <https://biology-forums.com/index.php?topic=399066>

Question 1452

The linear EGR valve uses _____ to control the opening of the valve.

- A) A pressure valve
- B) Vacuum
- C) A pulse-width modulated solenoid
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=399317>

Question 1453

An engine equipped with GDI may have up to a _____ percent improvement in fuel economy.

A) 10 B) 6 C) 50 D) 25

Answer: <https://biology-forums.com/index.php?topic=399211>

Question 1454

A clutch is chattering when engaged. Technician A says that too much clutch freeplay is the cause. Technician B says that oil or grease may be on the friction disc. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400184>

Question 1455

Which type of port fuel injection fires all the injectors at the same time, once per crankshaft revolution?

A) Sequential fired B) Throttle body injection
C) Simultaneous double fired D) Gang double fired

Answer: <https://biology-forums.com/index.php?topic=399187>

Question 1456

During a dry compression test the first puff of the test shows 50 PSI and the maximum reading after 4 strokes is 150 PSI. This indicates _____.

A) A bad spark plug B) Weak piston rings C) A good cylinder D) A hole in the piston

Answer: <https://biology-forums.com/index.php?topic=398020>

Question 1457

A bedplate is located between the _____ and the _____.

A) Cylinder head ; block deck B) Bottom of the block; oil pan
C) Cylinder bores ; water jacket D) Block deck; cylinder bore

Answer: <https://biology-forums.com/index.php?topic=398160>

Question 1458

A high-impedance meter _____.

A) Measures a high amount of resistance B) Measures a high amount of current flow
C) Has a high internal resistance D) Can measure a high voltage

Answer: <https://biology-forums.com/index.php?topic=398364>

Question 1459

The freezing point of water is _____.

A) 0 deg. C B) 32 deg. F C) 0 deg. F D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=397673>

Question 1460

The ability to measure AC current is useful when diagnosing _____.

A) Alternator function B) Resistance in a battery cable
C) Starter motor operation D) None of these

Answer: <https://biology-forums.com/index.php?topic=398378>

Question 1461

A paper test can be used to check for a possible problem with _____.

A) The ignition system (bad spark plug wire) B) A burned valve
C) Faulty port on a multiport fuel injected engine D) Any of these

Answer: <https://biology-forums.com/index.php?topic=399379>

Question 1462

The steering wheel in a vehicle moves when the body is bounced up and down. Technician A says that bent steering linkage components could be the cause. Technician B says that this is a normal condition. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400078>

Question 1463

Which sensor can be tested by unbolting the sensor and, with the ignition on, engine off (KOEO), looking at the scan tool data?

A) Vehicle speed sensor B) Suspension sensor C) "G" sensor D) Wheel speed sensor

Answer: <https://biology-forums.com/index.php?topic=400017>

Question 1464

Technician A says that to check the operation of a vacuum brake booster, the brake pedal should be depressed until the assist is depleted and then start the engine. Technician B says that the brake pedal should drop when the engine starts, if the booster is okay. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399769>

Question 1465

A clogged orifice tube can cause a lack of cooling

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=398851>

Question 1466

Which of these is an example of a three-position actuator?

- A) Blend door B) Bi-level air door
C) Recirculation door D) None of these is correct

Answer: <https://biology-forums.com/index.php?topic=398834>

Question 1467

What term describes the ability to do work?

- A) Potential B) Energy C) Force D) None of these

Answer: <https://biology-forums.com/index.php?topic=397702>

Question 1468

Technician A says that federal law requires all vehicles to be equipped with collapsible steering columns. Technician B says that a hammer can be used to install a steering wheel onto the steering shaft. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400049>

Question 1469

DOT 3 brake fluid can absorb _____ % of its volume of water per year.

- A) 50% B) 2% C) 15% D) None of these

Answer: <https://biology-forums.com/index.php?topic=397822>

Question 1470

Technician A says that a fuel cell stack consists of a number of fuel cells connected in parallel. Technician B says that a fuel cell stack consists of a number of fuel cells connected in series. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399486>

Question 1471

The driver of a vehicle with ESC has turned OFF the stability control system. What will happen the next time the vehicle is driven?

- A) The ESC system will remain OFF until turned back on by the driver.
B) It will depend on which driver of the vehicle enters the vehicle.
C) The ESC system will return to its default ON status.
D) None of these

Answer: <https://biology-forums.com/index.php?topic=399843>

Question 1472

What part causes the disc brake caliper piston to retract when the brakes are released?

- A) The square cut O-ring B) Return (retracting) spring
C) The rotating rotor (disc) that pushes the piston back D) The caliper bushings

Answer: <https://biology-forums.com/index.php?topic=399680>

Question 1473

O-rings are usually made from _____.

- A) HSN B) Natural rubber C) Neoprene D) Either A or C

Answer: <https://biology-forums.com/index.php?topic=398869>

Question 1474

Technician A says that vacuum-operated fuel pressure regulators maintain an equal pressure drop across the fuel injectors all the time. Technician B says that intake manifold pressure is high at idle. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399193>

Question 1475

Why is a vacuum line attached to a fuel-pressure regulator on many port-fuel-injected engines?

- A) To lower the fuel pressure under heavy engine load conditions to help improve fuel economy
B) To draw fuel back into the intake manifold through the vacuum hose
C) To raise the fuel pressure at idle
D) To create an equal pressure drop across the injectors

Answer: <https://biology-forums.com/index.php?topic=399169>

Question 1476

At about what temperature does oxygen combine with the nitrogen in the air to form NOx?

- A) 500 degrees F B) 1500 degrees F C) 750 degrees F D) 2500 degrees F

Answer: <https://biology-forums.com/index.php?topic=399315>

Question 1477

Technician A says that the back of all engine bearings should be lubricated during assembly. Technician B says that the face of the main and rod bearings should be lubricated before final assembly. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398231>

Question 1478

Two technicians are discussing MAP sensors. Technician A says that the MAP sensor should be replaced if anything comes out of the sensor when the vacuum hose is removed from the sensor. Technician B says that the injector pulse width should increase when vacuum to the MAP sensor is increased. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399094>

Question 1479

Calculate the total resistance and current in a 12 volt parallel circuit with three resistors of 4 ohms, 8 ohms, and 16 ohms, using any one of the five methods (calculator suggested). What is the total resistance and current?

- A) 140 ohms (18 amperes) B) 4 ohms (3.0 amperes)
C) 22 ohms (0.4 amperes) D) 2.3 ohms (5.3 amperes)

Answer: <https://biology-forums.com/index.php?topic=398338>

Question 1480

Use the following information to answer the question:

Specifications: Min. Preferred Max.

Camber (deg.) -1/4 +1/2 1

Caster (deg.) 0 +2 +4

Toe (inch) -1/16 1/16 3/16

Results: Left F Right F

Camber (deg) -0.3 -0.1

Caster (deg) 3.6 1.8

Toe (inch) -1/16 +1/32

The vehicle above will _____.

- A) wear tires, but will not pull
B) wander
C) pull toward the left and cause feather-edge tire wear
D) will pull, but not wear tires

Answer: <https://biology-forums.com/index.php?topic=400156>

Question 1481

All of the following are the proper ways to dispose of a drained oil filter EXCEPT _____.

- A) Sent for recycling
- B) Disposed of in regular trash
- C) Considered to be hazardous waste and disposed of accordingly
- D) Picked up by a service contract company

Answer: <https://biology-forums.com/index.php?topic=397524>

Question 1482

Technician A says that vacuum is usually measured in psi. Technician B says vacuum is usually measured in inches of mercury (Hg). Who is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398884>

Question 1483

Technician A says that RBS type tie rod ends do not require periodic lubrication. Technician B says that the steering gear must be removed to replace outer tie rod ends. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400083>

Question 1484

Residual check valves _____

- A) May be located under the tubing seat.
- B) Do NOT keep air out of the brake lines.
- C) Are required on systems with cup expanders in their wheel cylinders.
- D) Are used only on antilock braking systems.

Answer: <https://biology-forums.com/index.php?topic=399562>

Question 1485

Which statement below is correct concerning asbestos and automotive service?

- A) Asbestos was once used to make friction material for clutches and brake linings
- B) Exposure to even low levels of asbestos may cause a disease known as mesothelioma.
- C) A technician cannot be certain when he/ she is working with asbestos-containing products.
- D) All of the statements above are correct.

Answer: <https://biology-forums.com/index.php?topic=397534>

Question 1486

All OBDII vehicles use what type of read-only memory?

- A) ROM
- B) PROM
- C) EEPROM
- D) EPROM

Answer: <https://biology-forums.com/index.php?topic=399016>

Question 1487

Fuel injection service is being discussed. Technician A says that the throttle plate(s) should be cleaned. Technician B says that the fuel rail should be cleaned. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399240>

Question 1488

Which pins of the DLC should be connected in order to retrieve "flash" codes from a GM OBD I PCM?

- A) A and C
- B) A and B
- C) D and E
- D) A and D

Answer: <https://biology-forums.com/index.php?topic=399405>

Question 1489

When transmission fluid temperature begins to rise above a preset limit, the TCC _____

- A) Is engaged.
- B) Helps reduce internal temperatures.
- C) Is disengaged.
- D) Both A and B are correct.

Answer: <https://biology-forums.com/index.php?topic=400375>

Question 1490

In a circuit with high resistance _____.

- A) No electrical device will function
- B) Electrical loads may still operate but less efficiently

C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398320>

Question 1491

Technician A says that the cruise control on a vehicle equipped with an electronic throttle control (ETC) system uses a servo to move the throttle. Technician B says that the cruise control on a vehicle with ETC uses the APP sensor to set the speed. Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398728>

Question 1492

A vehicle has set DTC P0172, indicating a lean exhaust and a vacuum leak is suspected. This can be diagnosed by introducing _____ around the intake manifold gasket.

A) Propane B) Sprayed gasoline C) Shop air D) Rock salt

Answer: <https://biology-forums.com/index.php?topic=398033>

Question 1493

Technician A says that a bypass valve is used to control the boost pressure on most factory installed superchargers. Technician B says that an intercooler is used on many turbocharged and some supercharged engines to reduce the temperature of air entering the engine for increased power. Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397995>

Question 1494

Where can a technician find information about lubrication points, lift points, and oil specifications?

A) Owners manual B) Drivers door panel C) Lubrication guide D) None of these

Answer: <https://biology-forums.com/index.php?topic=397763>

Question 1495

A growling noise is heard only when the driver exerts force on the clutch pedal. No noise is heard when the clutch pedal is up. Technician A says the pilot bearing is defective. Technician B says the input shaft bearing is defective. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400179>

Question 1496

Hard spots in a brake drum are caused by _____.

A) Machining a drum at too high a speed
B) Excessive heat and pressure
C) Machining a drum without using a rubber belt to damper out the vibrations
D) Improper mounting of the drum on the lathe

Answer: <https://biology-forums.com/index.php?topic=399758>

Question 1497

Where is the output of the AIR pump directed when the engine is cold?

A) Catalytic converter B) To the atmosphere C) Exhaust manifold D) Air cleaner assembly

Answer: <https://biology-forums.com/index.php?topic=399326>

Question 1498

Facial expressions are what type of communication?

A) Written B) Implied C) Verbal D) None of these

Answer: <https://biology-forums.com/index.php?topic=397444>

Question 1499

Alternators induce voltage by rotating which of these?

A) Stator inside a magnetic field B) Conductor around a fixed stator
C) Diodes inside a magnetic field D) Magnetic field inside a fixed conductor

Answer: <https://biology-forums.com/index.php?topic=398644>

Question 1500

If the throttle plate needs to be cleaned, what symptoms will be present regarding the operation of the engine?

- A) Hesitation on acceleration B) Stalls
C) Rough idle D) Any of these

Answer: <https://biology-forums.com/index.php?topic=399241>

Question 1501

Traction control is being discussed. Technician A says that the computer locks both drive wheels together when one drive wheel starts to slip. Technician B says that first the brakes are applied then the engine power is reduced. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399840>

Question 1502

Technician A says that most pressure regulating valves work by balancing hydraulic pressure against a spring force. Technician B says that electronic transmissions use solenoids to further regulate hydraulic pressure. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400355>

Question 1503

Which form is used to report tax withholding?

- A) Job application B) MSDS C) W-4 D) None of these

Answer: <https://biology-forums.com/index.php?topic=397420>

Question 1504

The total circuit resistance of a parallel circuit is always _____ the lowest resistance present in any branch of the circuit.

- A) More than B) Equal to C) Less than D) None of these

Answer: <https://biology-forums.com/index.php?topic=398351>

Question 1505

A typical MAP compares the vacuum in the intake manifold to _____.

- A) Barometric pressure B) The value of the IAT sensor
C) Atmospheric pressure D) A perfect vacuum

Answer: <https://biology-forums.com/index.php?topic=399079>

Question 1506

A wide band oxygen sensor needs to be heated to what operating temperature?

- A) 600 deg. F B) 2,000 deg. F C) 800 deg. F D) 1,400 deg. F

Answer: <https://biology-forums.com/index.php?topic=399126>

Question 1507

When the pressure in a caliper is released, the piston is moved back in the cylinder by _____.

- A) The opening of the vent port B) Spring pressure
C) The leverage of the caliper arms D) The action of the piston seal

Answer: <https://biology-forums.com/index.php?topic=399694>

Question 1508

Technician A says that all components in the high voltage battery box are completely insulated from the rest of the vehicle for safety. Technician B says that the high voltage battery box is located under the hood in some vehicles. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399444>

Question 1509

Used engine oil should be disposed of by all these methods EXCEPT _____.

- A) Burned onsite in a waste oil-approved heater B) Burned offsite in a waste oil-approved heater
C) Disposed of in regular trash D) Shipped offsite for recycling

Answer: <https://biology-forums.com/index.php?topic=397523>

Question 1510

Which term describes the PCM shutting off fuel injection when the accelerator is pressed all the way down?

A) Starting mode B) Clear flood mode C) Open loop mode D) Closed loop mode

Answer: <https://biology-forums.com/index.php?topic=399196>

Question 1511

Technician A says the flywheel is attached to the engine crankshaft and rotates at engine speed. Technician B says the pressure plate also rotates at engine speed. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400196>

Question 1512

A freeze frame is generated on an OBD-II vehicle _____.

A) When a type A or B diagnostic trouble code is set B) Every other trip
C) When the PCM detects a problem with the O2S D) When a type C or D diagnostic trouble code is set

Answer: <https://biology-forums.com/index.php?topic=399357>

Question 1513

Technician A says that the engine drives the U-joint at a constant speed, but the output speed of the U-joint changes based on the angle. Technician B says that smaller U-joint angles create greater changes in speed. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400248>

Question 1514

What do you call the technicians protective head cover?

A) Hat B) Helmet C) Cap D) Bump cap

Answer: <https://biology-forums.com/index.php?topic=397488>

Question 1515

Technician A says that the exhaust system also contains a catalytic converter, exhaust pipes, and muffler. Technician B says that the entire exhaust system is supported by metal hangers that isolate the noise and vibration of the exhaust from the rest of the vehicle. Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397974>

Question 1516

A P0100 DTC is being discussed. Technician A says that an open or short in mass air flow circuit could be the cause. Technician B says that a defective MAF sensor could be the cause. Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399114>

Question 1517

Most braided ground straps are _____.

A) Insulated B) Uninsulated
C) Made of high resistance wire D) None of these

Answer: <https://biology-forums.com/index.php?topic=398427>

Question 1518

Technician A hammers on a tie rod stud to break the taper with the steering knuckle. Technician B uses a special puller to separate the tie rod stud from the steering knuckle. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400271>

Question 1519

The driver rotates the steering wheel one-half of one revolution on a vehicle equipped with a steering gear with a 20:1 gear ratio. How many degrees will the front tires be rotated?

A) 0.1 degrees B) 90 degrees C) 11.1 degrees D) 9 degrees

Answer: <https://biology-forums.com/index.php?topic=400040>

Question 1520

During cranking, most pickup coils should produce a minimum of _____.

A) 0.50 volts AC B) 0.50 volts DC C) 0.25 volts DC D) 0.25 volts AC

Answer: <https://biology-forums.com/index.php?topic=399008>

Question 1521

On a vehicle with electronically controlled suspension or stability control, what extra step may be needed to complete an alignment?

- A) Equalize the rear tie rods B) Reduce the tire pressure
C) Reset the steering wheel sensor D) Adjust the air bag system

Answer: <https://biology-forums.com/index.php?topic=400176>

Question 1522

To convert a decimal number to a percentage, multiply by _____.

- A) 100 B) 0.1 C) 10 D) None of these

Answer: <https://biology-forums.com/index.php?topic=397737>

Question 1523

Technician A says that tie rod ends are used to connect the steering linkage to the steering knuckles. Technician B says that some ball and socket joints are filled with rubber and do not require lubrication. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400075>

Question 1524

Technician A says that most horn circuits use a relay and the current through the relay coil is controlled by the horn switch or body control module. Technician B says that most windshield wipers use a two-brush, three-speed motor. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398720>

Question 1525

Two technicians are discussing the towing of a four-wheel-drive vehicle. Technician A says that the vehicle should be transported on a flatbed truck to avoid the possibility of doing damage to the drive train. Technician B says that the wheels not lifted off the ground by the tow truck should be placed on a dolly to prevent doing damage to the drive train. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400305>

Question 1526

A conventional oxygen sensor heater uses about _____ amps.

- A) 8 to 10 B) 0.5 or less C) 0.8 to 2.0 D) More than 10

Answer: <https://biology-forums.com/index.php?topic=399142>

Question 1527

Which of these is used to cut threads in a drilled hole?

- A) Die B) Tap C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397568>

Question 1528

All of the following statements are correct EXCEPT _____

- A) Resistance tests may not reflect the actual performance conditions of an ignition coil.
B) Current ramping can be used to test for current limits and charging rise time of the ignition circuit.
C) Testing an ignition coil for resistance will always indicate its condition.
D) A digital storage oscilloscope is used to perform current ramping tests.

Answer: <https://biology-forums.com/index.php?topic=399012>

Question 1529

A magnetic field can be measured using a _____.

- A) Gauss gauge B) Inductive pickup C) Voltmeter D) None of these

Answer: <https://biology-forums.com/index.php?topic=398499>

Question 1530

What term describes the result when force is used to move an object?

A) Work B) Energy C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397705>

Question 1531

The amperage in a series circuit is _____.

- A) Varies in the circuit due to the different resistances
- B) High at the beginning of the circuit and decreases as the current flows through the resistance
- C) Always less returning than leaving the battery
- D) The same anywhere in the circuit

Answer: <https://biology-forums.com/index.php?topic=398330>

Question 1532

Technician A says that brake drums on the same axle should be close to the same inside diameter for best brake balance. Technician B says that a brake drum may be cracked if it rings like a bell when tapped with a light steel hammer. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399751>

Question 1533

A charged capacitor acts like a _____.

- A) Battery
- B) Resistor
- C) Coil
- D) Switch

Answer: <https://biology-forums.com/index.php?topic=398471>

Question 1534

Manual brake bleeding _____.

- A) Is the least expensive method
- B) Requires two people
- C) Is most commonly used
- D) All of the above

Answer: <https://biology-forums.com/index.php?topic=399606>

Question 1535

In a series circuit _____.

- A) Total circuit resistance is equal to the sum of all resistances in the circuit
- B) Current flow is constant at any point in the circuit
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398348>

Question 1536

Technician A says that many bearings also have a thin overlay of babbitt. Technician B says that bearings should have spread and crush to keep them from spinning when the crankshaft rotates. Who is right?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398192>

Question 1537

The proper grease to use with CV joints is _____.

- A) The grease that is supplied with the boot kit
- B) Red moly grease
- C) Dark blue EP grease
- D) Black chassis grease

Answer: <https://biology-forums.com/index.php?topic=400233>

Question 1538

The sending unit in a typical fuel gauge includes a _____.

- A) Zener diode
- B) Diaphragm
- C) Fixed resistor
- D) Float

Answer: <https://biology-forums.com/index.php?topic=398698>

Question 1539

Technician A says that a minor overhaul can often be done with the engine remaining in the vehicle. Technician B says that a core is required for most remanufactured engines. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398049>

Question 1540

When replacing an air conditioning component, all of the following are true about the refrigerant oil EXCEPT: _____.

- A) The old oil should be replaced with fresh oil
- B) The old oil should be drained from the component and measured
- C) The oil removed during refrigerant recovery should be measured
- D) The oil charge stamped on the compressor should be added to the system

Answer: <https://biology-forums.com/index.php?topic=398878>

Question 1541

A P0113 DTC is being discussed. Technician A says that the IAT sensor could be internally (electrically) shorted. Technician B says that the PCM could be defective. Who is right?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399056>

Question 1542

Which of these has the lowest dielectric constant?

- A) Mica
- B) Vacuum
- C) Paper
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=398481>

Question 1543

Damaged threads in an engine block can be repaired using which of these methods?

- A) A key lock insert
- B) A threaded insert
- C) Either A or B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397573>

Question 1544

Technician A says that the parking brake hand lever can turn on the red brake warning lamp. Technician B says that a foot-operated parking brake can turn on the red brake warning lamp. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399729>

Question 1545

Two technicians are discussing vacuum brake boosters. Technician A says that a low, soft brake pedal is an indication of a defective booster.

Technician B says that there should be at least two power-assisted brake applications after the engine stops running. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399768>

Question 1546

Why shouldn't a service technician depress a brake pedal all the way down when bleeding brakes?

- A) The sealing cups would uncover the compensating port
- B) The sealing cups can be damaged
- C) The brake pedal could bind
- D) It builds too much pressure

Answer: <https://biology-forums.com/index.php?topic=399603>

Question 1547

How many rotations of the crankshaft are required to complete each stroke of a four-stroke cycle engine?

- A) One
- B) One-fourth
- C) One-half
- D) Two

Answer: <https://biology-forums.com/index.php?topic=397836>

Question 1548

Technician A says that electrons in a fuel cell flow from the cathode to the anode. Technician B says that electrons in a fuel cell flow from the anode to the cathode. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399480>

Question 1549

A plug-in hybrid is different from a conventional hybrid electric vehicle because it has _____.

A) More batteries B) LiOx batteries
C) A built-in battery charger D) Bigger motor/ generator
Answer: <https://biology-forums.com/index.php?topic=399469>

Question 1550

A P0108 DTC is being discussed. Technician A says that a damaged or missing MAP sensor O-ring could be the cause. Technician B says the MAP sensor signal circuit shorted-to-ground could be the cause. Who is right?
A) Technician A B) Technician B C) Both technicians D) Neither technician
Answer: <https://biology-forums.com/index.php?topic=399096>

Question 1551

An electric SAI pump is controlled by _____.
A) A vacuum switch B) Manifold vacuum C) Exhaust pressure D) The PCM
Answer: <https://biology-forums.com/index.php?topic=399334>

Question 1552

When the brakes are applied lightly at low speeds on slippery pavement, which type of valve keeps the front brakes from locking?
A) Metering valve B) Residual pressure check valve
C) Purge valve D) Proportioning valve
Answer: <https://biology-forums.com/index.php?topic=399563>

Question 1553

If both the low side and the high side show low readings, what might be the problem?
A) TXV stuck open B) Condenser malfunction
C) Low refrigerant charge D) Cooling fan malfunction
Answer: <https://biology-forums.com/index.php?topic=398861>

Question 1554

A vehicle is being repaired after an airbag deployment. Technician A says that the inflator module should be handled as if it is still live. Technician B says rubber gloves should be worn to prevent skin irritation. Who is right?
A) Technician A B) Technician B C) Both technicians D) Neither technician
Answer: <https://biology-forums.com/index.php?topic=398749>

Question 1555

In what year did PCV system monitoring become mandatory?
A) 2000 B) 2004 C) 1988 D) 1996
Answer: <https://biology-forums.com/index.php?topic=399332>

Question 1556

Which sensors do most vehicles use if equipped with electronic suspension?
A) Steering wheel position sensors B) Height sensors
C) Lateral accelerometer sensors D) All of the above
Answer: <https://biology-forums.com/index.php?topic=400011>

Question 1557

What battery rating is tested at 32 deg F?
A) Reserve capacity B) Cranking amperes (CA)
C) Battery voltage test D) Cold-cranking amperes (CCA)
Answer: <https://biology-forums.com/index.php?topic=398555>

Question 1558

A scan tool can be used to _____.
A) Check for transmission-related sensor information B) Command a shift
C) Check for stored diagnostic trouble codes D) All of the above
Answer: <https://biology-forums.com/index.php?topic=400366>

Question 1559

Two technicians are discussing drum brake self-adjusters. Technician A says that some brakes self-adjust when the brakes are released when the

vehicle is driven in reverse. Technician B says that some brakes self-adjust when the brakes are applied rather than when released. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399640>

Question 1560

When washing hands, water should be at what temperature?

- A) 125 deg F B) 98 deg F C) 135 deg F D) 110 deg F

Answer: <https://biology-forums.com/index.php?topic=397490>

Question 1561

The process of sending multiple signals of information at the same time over a signal wire and then separating the signals at the receiving end is called _____.

- A) Modulating B) Controller Area Network
C) Multiplexing D) Rectifying

Answer: <https://biology-forums.com/index.php?topic=398539>

Question 1562

Technician A says that in bypass mode, the ignition system is timed by the ignition module. Technician B says that in bypass mode, the ignition system does not use the PCM to time spark plug firing. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398986>

Question 1563

Where can the VECI label be found?

- A) Drivers door jam B) Lower left corner of the windshield
C) Under the hood near the fan shroud D) None of these

Answer: <https://biology-forums.com/index.php?topic=397795>

Question 1564

A charge indicator (eye) operates by showing green or red when the battery is charged and dark if the battery is discharged. This charge indicator detects _____.

- A) Internal resistance of the cells B) Electrolyte water pH
C) Battery voltage D) Specific gravity

Answer: <https://biology-forums.com/index.php?topic=398557>

Question 1565

Modern clutch friction material is commonly made from _____.

- A) Nodular cast iron B) Asbestos and ceramic materials
C) Cotton, paper, wire, resin D) Silicone-based compounds

Answer: <https://biology-forums.com/index.php?topic=400194>

Question 1566

Technician A says that most loaded ball joints can have up to 0.050 inches of axial free play and still be within specifications. Technician B says that follower ball joints generally should have no more than 0.050 inches of play. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399975>

Question 1567

Which sensor is also called the ambient air temperature sensor?

- A) Discharge air temperature B) Evaporator outlet temperature
C) Outside air temperature D) Inside vehicle temperature

Answer: <https://biology-forums.com/index.php?topic=398824>

Question 1568

Technician A says that indexing the distributor is the same as setting ignition timing. Technician B says that a distributor that is not phased correctly can cause a misfire and rough idle. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399003>

Question 1569

Which type vehicle is most likely to have a D pillar?

- A) Sports coupe B) Pickup truck C) Station wagon D) None of these

Answer: <https://biology-forums.com/index.php?topic=397353>

Question 1570

A pending code is set when a fault is detected on _____.

- A) The catalytic converter efficiency test
B) A one-trip fault item
C) A thermostat problem (too long to closed-loop status)
D) The first fault of a two-trip failure

Answer: <https://biology-forums.com/index.php?topic=399366>

Question 1571

The primary brake circuit fails due to a leak in the lines, leaving the rear section of a dual split master cylinder. Technician A says that the driver will notice a lower than normal brake pedal and some reduced braking power. Technician B says that the brake pedal will "grab" higher than normal. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399525>

Question 1572

Technician A says that engine torque is transmitted through the surface of the hollow driveshaft from the transmission to the rear differential in a RWD vehicle. Technician B says that a bent driveshaft on a RWD vehicle can cause a condition known as torque steer. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400244>

Question 1573

When jump starting _____.

- A) The last connection should be the positive post of the dead battery
B) The last connection should be the engine block of dead vehicle
C) The alternator must be disconnected on both vehicles
D) Both A and C

Answer: <https://biology-forums.com/index.php?topic=398578>

Question 1574

Which battery rating is expressed in minutes?

- A) Battery voltage test B) Cranking amperes
C) Cold-cranking amperes D) Reserve capacity

Answer: <https://biology-forums.com/index.php?topic=398554>

Question 1575

Which is the largest?

- A) 1/50 B) 0.375 C) 0.25 D) 1/10

Answer: <https://biology-forums.com/index.php?topic=397729>

Question 1576

Technician A says that an electronic throttle control uses a stepper motor. Technician B says that an electronic throttle control uses a vacuum controlled module to keep the throttle at a 16%-20% throttle opening. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399230>

Question 1577

Slow cranking by the starter can be caused by all of these, EXCEPT _____.

- A) Corroded or dirty battery cables B) A low or discharged battery
C) Open neutral safety switch D) Engine mechanical problems

Answer: <https://biology-forums.com/index.php?topic=398616>

Question 1578

To increase the capacity, what could be done?

- A) Add a resistor between two capacitors B) Connect another capacitor in series
C) Connect another capacitor in parallel D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=398475>

Question 1579

Which of the following shows the relationship of parts?

- A) Diagram B) Chart C) Graph D) Schematic

Answer: <https://biology-forums.com/index.php?topic=397727>

Question 1580

Technician A says that some brake pads have tapered edges to prevent vibration. Technician B says that pad wear indicators are required by law on all new vehicles. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399703>

Question 1581

Technician A says that a major limitation of electric vehicles is their short range. Technician B says that a major advantage of electric vehicles is their quiet operation. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399422>

Question 1582

A main source of heat used to warm the passenger compartment is _____

- A) ambient air. B) humidity. C) sunlight. D) the vehicle engine.

Answer: <https://biology-forums.com/index.php?topic=398815>

Question 1583

Two technicians are discussing anti-theft systems. Technician A says that some systems require a special key. Technician B says that some systems use a computer chip in the key. Who is right?

- A) A only B) B only C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398736>

Question 1584

Warranty claims are often submitted over the Internet.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=397409>

Question 1585

What unit of electricity is used as a signal for a computer?

- A) Watt B) Ampere C) Ohm D) Volt

Answer: <https://biology-forums.com/index.php?topic=399014>

Question 1586

When searching for a job, which of these should be considered?

- A) Experience requirements B) Tools needed
C) Drug testing policy D) All of these

Answer: <https://biology-forums.com/index.php?topic=397415>

Question 1587

What components in the AC system may be different on a hybrid electric vehicle?

- A) Evaporator B) Condenser C) Blower motor D) Compressor

Answer: <https://biology-forums.com/index.php?topic=398833>

Question 1588

Technician A says that the test drive is an important diagnostic step to verify customer ABS concerns. Technician B says that if the red brake warning

light is on, the conventional brake system should be repaired first, before driving. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399820>

Question 1589

Pump octane is rated by _____.

- A) Research octane only B) Motor octane only C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398897>

Question 1590

The PCM controls cam timing by use of _____.

- A) A reluctor regulator B) A variable chain tensioner
C) A variable spring D) A pulse width modulated (PWM) signal

Answer: <https://biology-forums.com/index.php?topic=398136>

Question 1591

Most outboard CV joints are held onto the driveshaft by using a _____ at the end of the shaft.

- A) Snap ring B) Cap screw C) Circlip D) Any of these

Answer: <https://biology-forums.com/index.php?topic=400274>

Question 1592

Technician A says that a two-wire COP system uses the PCM to trigger the coil. Technician B says that a three-wire COP system has an ICM built into the coil assembly. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398967>

Question 1593

Before removing the piston and rod assembly from the cylinder block, you should do all of these, EXCEPT _____.

- A) Install rod bolt protectors
B) Make sure the rods are marked to their respective cylinders
C) Remove the cylinder ridge with a ridge reamer
D) Notch the top of the piston for identification

Answer: <https://biology-forums.com/index.php?topic=398055>

Question 1594

Technician A asks the service consultant to clarify unclear items on the work order. Technician B sticks to the "three Cs" when communicating with the customer. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397453>

Question 1595

A typical hanging brake pedal is a _____.

- A) Second-class lever B) Fourth-class lever C) First-class lever D) Third-class lever

Answer: <https://biology-forums.com/index.php?topic=399519>

Question 1596

Technician A says that worm bearing preload is also called worm end play. Technician B says that sector lash is also known as gear lash. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400052>

Question 1597

When load testing a battery, which battery rating is normally used to determine how much load to apply to the battery?

- A) RC B) MCA C) CCA D) CA

Answer: <https://biology-forums.com/index.php?topic=398573>

Question 1598

Technician A says that two diodes are required for each stator winding lead. Technician B says that diodes change alternating current into direct

current.

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398634>

Question 1599

One horsepower is the power required to move _____ pounds a distance of one foot in one second.

- A) 33000 B) 550 C) 1 D) None of these

Answer: <https://biology-forums.com/index.php?topic=397708>

Question 1600

Technician A says that suspension diagnosis and service should begin with a comprehensive test drive. Technician B says that shocks or struts should be replaced in axle pairs. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399998>

Question 1601

Types of communications include _____.

- A) Written B) Verbal C) Nonverbal D) All of these

Answer: <https://biology-forums.com/index.php?topic=397429>

Question 1602

What should be done first before removing the starter motor from the vehicle?

- A) Remove starter solenoid B) Remove battery
C) Disconnect starter relay D) Disconnect battery cables

Answer: <https://biology-forums.com/index.php?topic=398625>

Question 1603

Which of the following is NOT true?

- A) MacPherson strut suspension systems do not use loaded ball joints
B) Struts support the weight of the vehicle
C) MacPherson struts attach to the steering knuckle
D) Struts control spring oscillation

Answer: <https://biology-forums.com/index.php?topic=399950>

Question 1604

Technician A says that outer tie rod ends should be replaced in pairs, even if only one is worn. Technician B says that inner tie rod ends should be replaced in pairs, even if only one is worn. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400068>

Question 1605

Which of the following is the LEAST likely sensor to cause an electronic suspension fault?

- A) Steering wheel position sensor B) Yaw sensor
C) Throttle position sensor D) Vehicle speed sensor

Answer: <https://biology-forums.com/index.php?topic=400019>

Question 1606

Disc brakes have many advantages, some of which are listed below. Which of the following statements does NOT apply to disc brakes?

- A) They are self-cleaning. B) They are self-energizing.
C) They resist fading. D) They dissipate heat faster.

Answer: <https://biology-forums.com/index.php?topic=399695>

Question 1607

The electric fuel pump is usually mounted in which of these locations?

- A) In front of the starter motor B) Trunk near the spare tire
C) Fuel Tank D) Just above the right rear tire well

Answer: <https://biology-forums.com/index.php?topic=399160>

Question 1608

Which of these electronic display devices uses a fluid and polarized glass to create numbers and characters?

- A) LED B) CRT C) LCD D) VFD

Answer: <https://biology-forums.com/index.php?topic=398702>

Question 1609

A "witness mark" is a _____.

- A) type of identification mark B) Mark where two parts have rubbed or touched
C) Type of fastener D) Type of tool

Answer: <https://biology-forums.com/index.php?topic=399988>

Question 1610

It is wise to consult with which of these professionals when starting your own business?

- A) Insurance agent B) Lawyer C) Accountant D) All of these

Answer: <https://biology-forums.com/index.php?topic=397427>

Question 1611

A vehicle is undergoing a SHED test. What is being measured?

- A) Zero emissions B) Lighting pollution
C) Evaporative emissions D) Tail pipe gasses

Answer: <https://biology-forums.com/index.php?topic=399274>

Question 1612

After honing or deglazing, cylinder walls should be washed with _____.

- A) Oil soaked rags B) Hot soapy water C) Cleaning solvent D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=398174>

Question 1613

Torque converters use a stator as a _____.

- A) Drive member B) Pump regulator C) Reaction member D) Driven member

Answer: <https://biology-forums.com/index.php?topic=400331>

Question 1614

A defective taillight or front park light bulb could cause _____.

- A) The lights-on chime to sound if the brake pedal is depressed
B) The dash lights to come on when the brake lights are on
C) The turn signal indicator on the dash to light when the lights are turned on
D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398676>

Question 1615

A malfunction indicator light on the dash may be labeled _____.

- A) MIL B) Check engine C) Service vehicle soon D) MAL

Answer: <https://biology-forums.com/index.php?topic=397344>

Question 1616

The diesel particulate filter in the exhaust system is used to trap _____.

- A) CO2 particles B) Rust from inside the exhaust system
C) Soot D) Fine sand particles

Answer: <https://biology-forums.com/index.php?topic=397879>

Question 1617

What is applied to the ceramic substrate to make the surface porous?

- A) Aluminum B) Washcoat C) Cerium D) Honeycomb filler

Answer: <https://biology-forums.com/index.php?topic=399338>

Question 1618

When testing an EGR system for proper operation using a vacuum gauge, how much should intake manifold vacuum drop when the EGR valve is commanded open by a scan tool?

- A) 14.7 PSI B) 6-8 in. Hg. C) 1-2 in. Hg. D) 6-8 PSI

Answer: <https://biology-forums.com/index.php?topic=399307>

Question 1619

A time base setting of 1 ms/div will show a total time of _____ on the scope display

- A) 1 ms B) 10 ms C) 100 ms D) None of these

Answer: <https://biology-forums.com/index.php?topic=398403>

Question 1620

The ignition system is usually split into how many different sections?

- A) Four B) Three C) One D) Two

Answer: <https://biology-forums.com/index.php?topic=398968>

Question 1621

Technician A says that vehicles with independent rear suspensions provide better handling than those with solid rear axles. Technician B says that vehicles with independent rear suspensions generally have less unsprung weight. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400007>

Question 1622

Technician A says that drum brakes can fail to slow the vehicle if driven through deep water. Technician B says that when drum brakes get hot, the brake pedal will drop because the drum expands away from the shoes. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399635>

Question 1623

Which alcohol is dangerous (toxic)?

- A) Ethanol B) Methanol
C) Both ethanol and methanol D) Neither ethanol nor methanol

Answer: <https://biology-forums.com/index.php?topic=398914>

Question 1624

Technician A says that the high voltage cables may be repaired if damaged while lifting on a vehicle hoist. Technician B says that a paint oven does not get hot enough to damage high voltage cables or other hybrid components. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399447>

Question 1625

Specifications Min. Preferred Max.

Camber (deg) 0 1.0 1.4

Caster (deg) .8 1.5 2.1

Toe (inch) -.10 .06 .15

Results Left F Right F

Camber (deg) -0.1 0.6

Caster (deg) 1.8 1.6

Toe (inch) 1.12 0.12

The above vehicle will _____.

- A) Wear the outside of the left tire and the inside of the right tire
B) Pull toward the right and feather-edge both tires
C) Pull toward the left
D) None of the above

Answer: <https://biology-forums.com/index.php?topic=400154>

Question 1626

Technician A says that more time should be allotted to repair extremely rusted or dirty vehicles. Technician B says that more time should be allotted for less experienced technicians. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397455>

Question 1627

Which term describes the electrical current flow in the opposite direction when an injector coil is energized?

- A) Voltage drop B) Electromagnetic force
C) Magnetic induction D) Inductive reactance

Answer: <https://biology-forums.com/index.php?topic=399255>

Question 1628

Technician A says that mechanical cleaning with scrapers or wire brushes can be used to remove deposits. Technician B says that steel wire brushes can be used to clean aluminum parts. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398071>

Question 1629

Which mixture of coolant/water solution below is recommended for general automotive use?

- A) 30/70 B) 100/0 C) 50/50 D) 70/30

Answer: <https://biology-forums.com/index.php?topic=397897>

Question 1630

Technician A says some 4WD vehicles use a solid front axle. Technician B says some 4WD vehicles use halfshafts to send torque to the front wheels. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400319>

Question 1631

Technician A says that most ABS units are non-integral. Technician B says that the ABS is disabled (does not function) below about 5 mph (8 km/h). Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399793>

Question 1632

Gasoline direct injection (GDI) is also known as _____.

- A) EFI B) DI C) SIDI D) UIDI

Answer: <https://biology-forums.com/index.php?topic=399210>

Question 1633

A proper road test should include which of the following?

- A) Driving in reverse while turning B) Driving beside stationary objects
C) Driving on bumpy roads D) All of these are useful road test tips

Answer: <https://biology-forums.com/index.php?topic=399968>

Question 1634

After a TP sensor has been tested using the min/max function on a DMM, a reading of 5 volts is displayed. What does this reading indicate?

- A) The TP sensor is open at one point during the test B) The TP sensor is shorted
C) The TP sensor signal is shorted to 5-volt reference D) Both B and C are possible

Answer: <https://biology-forums.com/index.php?topic=399067>

Question 1635

Technician A says that snap rings are used to hold many components of a manual transmission/transaxle. Technician B says that snap rings have a "right side" that should always face up so that the snap ring pliers can be applied. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400211>

Question 1636

How does a bleeder valve seal?

- A) Lip seal B) By the threads C) O-ring D) Tapered end

Answer: <https://biology-forums.com/index.php?topic=399599>

Question 1637

The vehicle safety certification label includes _____.

- A) Gross vehicle weight rating
- B) VIN
- C) Month and year of manufacture
- D) All of these

Answer: <https://biology-forums.com/index.php?topic=397793>

Question 1638

Which unit of electricity does the work in the circuit?

- A) An ohm
- B) An ampere
- C) A volt
- D) A coulomb

Answer: <https://biology-forums.com/index.php?topic=398274>

Question 1639

Most vehicle manufacturers specify brake fluid that meets what specification?

- A) DOT 5
- B) DOT 3
- C) DOT 4
- D) DOT 2

Answer: <https://biology-forums.com/index.php?topic=397810>

Question 1640

When testing an alternator rotor, if an ohmmeter shows zero ohms with one meter lead attached to the slip rings and the other meter lead touching the rotor shaft, the rotor is _____.

- A) Defective (shorted-to-ground)
- B) OK (normal)
- C) Defective (shorted-to-voltage)
- D) OK (rotor windings are open)

Answer: <https://biology-forums.com/index.php?topic=398659>

Question 1641

Which valve is used on a factory supercharger to limit boost?

- A) A wastegate
- B) A bypass valve
- C) An air valve
- D) A blow-off valve

Answer: <https://biology-forums.com/index.php?topic=397984>

Question 1642

Technician A says that completing an entire four year apprenticeship program satisfies the ASE work requirement. Technician B says that a year of school equals an hour of work experience. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397471>

Question 1643

Technician A says that alignment sensor calibration is needed to compensate for bent wheels. Technician B says that sensor calibration is needed to compensate for uneven installation of the sensor on the wheel. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400164>

Question 1644

A flex-fuel vehicle can be identified by _____.

- A) VECI
- B) Emblems on the side, front, and/or rear of the vehicle
- C) VIN
- D) Any of the above

Answer: <https://biology-forums.com/index.php?topic=398912>

Question 1645

Technician A says that a MacPherson strut typically does not include the spring as part of the strut assembly. Technician B says that a modified strut typically does not include the spring as part of the strut assembly. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399965>

Question 1646

A transfer case is extremely noisy in all selections except neutral (N) whenever the vehicle is moving. Technician A says the drive chain may be stretched, causing the noise as it hits the inside of the case. Technician B says that one or more of the transfer case bearings could be defective.

Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400303>

Question 1647

To calculate fuel economy in MPG, what must be known?

- A) How far the vehicle travelled B) How much fuel was used
C) Both A and B are correct D) Neither A nor B is correct

Answer: <https://biology-forums.com/index.php?topic=397738>

Question 1648

Technician A says that the brake pedal should be depressed with as much force as possible during the normal bleeding procedure. Technician B says that the brake pedal should be pumped rapidly during this manual bleeding procedure to force the air down toward the bleeder valve(s). Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399595>

Question 1649

A meter is set to read DC volts on the 4-volt scale. The meter leads are connected at a 12-volt battery. The display will read _____.

- A) 12V B) OL C) 0.00 D) 0.012V

Answer: <https://biology-forums.com/index.php?topic=398365>

Question 1650

Which gas is used to fill the airbag during airbag deployment?

- A) Hydrogen sulfide B) Nitrous oxide C) Sulfur dioxide D) Nitrogen

Answer: <https://biology-forums.com/index.php?topic=400047>

Question 1651

All drive shafts are balanced.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=400228>

Question 1652

Technician A says that drive-up ramps may shift and "kick out" allowing the vehicle to drop unexpectedly. Technician B says that the wheels should always be chocked when using ramps. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397657>

Question 1653

Wheel back spacing is also called _____.

- A) Negative offset B) Rear spacing C) Positive offset D) Offset

Answer: <https://biology-forums.com/index.php?topic=399855>

Question 1654

A successful automotive technician possesses soft skills such as effective communication.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=397414>

Question 1655

An AWD transfer case must include a _____.

- A) Low-range gear set B) Shifter for the front output shaft
C) Differential D) All of these

Answer: <https://biology-forums.com/index.php?topic=400315>

Question 1656

What rating of diesel fuel indicates how well a diesel engine will start?

- A) Sulfur content B) Cetane rating
C) Cloud point D) Specific gravity rating

Answer: <https://biology-forums.com/index.php?topic=398933>

Question 1657

For best tire life, most vehicle manufacturers recommend tire rotation every _____.

- A) 9000 miles B) 6000 miles C) 3000 miles D) 12000 miles

Answer: <https://biology-forums.com/index.php?topic=399895>

Question 1658

Technician A says that the ABS electrohydraulic unit can be bled using bleeder screws and the manual method. Technician B says that a scan tool is often required to bleed the ABS electrohydraulic unit. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399818>

Question 1659

What controls the operation of a pulse-wiper system?

- A) A solid-state (electronic) module
B) A transistor
C) A resistor that controls current flow to the wiper motor
D) A variable speed gear set

Answer: <https://biology-forums.com/index.php?topic=398712>

Question 1660

Metric wire size is measured in units of _____.

- A) Cubic centimeters B) Square millimeters C) Meters D) Cubic millimeters

Answer: <https://biology-forums.com/index.php?topic=398408>

Question 1661

Which is the most widely used alternative fuel?

- A) E85 B) M85 C) Propane D) CNG

Answer: <https://biology-forums.com/index.php?topic=398915>

Question 1662

A clunk noise from the drive line may be the result of excessive rear differential backlash.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=400270>

Question 1663

Umbrella-type valve stem seals _____.

- A) Fit on the valve face to prevent combustion leaks B) Lock under the valve retainer
C) Fit tightly onto the valve stem D) Fit tightly onto the valve guide

Answer: <https://biology-forums.com/index.php?topic=398107>

Question 1664

Technician A says that diesel engines can be tested using a scan tool to determine sensor values. Technician B says that glow plugs can be used to locate a weak cylinder. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397869>

Question 1665

Technician A says that all HFC-134a uses the same refrigerant oil. Technician B says that refrigerant oil, regardless of type, must be kept in a sealed container to keep it from absorbing moisture from the air. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398797>

Question 1666

The two types of flares used on brake lines are _____.

- A) SAE and double flare B) Double flare and ISO
C) SAE and DOT D) Ball flare and bubble flare

Answer: <https://biology-forums.com/index.php?topic=399575>

Question 1667

After the engine block has been machined, it should be cleaned using _____.

- A) Sprayed with brake cleaner to remove the cutting oil
- B) Soap and water
- C) SAE 10W-30 oil and a shop cloth
- D) Sprayed with WD-40

Answer: <https://biology-forums.com/index.php?topic=398164>

Question 1668

A good fuel pump should supply how much fuel per minute?

- A) 0.5 to 1 gallons
- B) 1 pint
- C) 0.25 pint
- D) 0.5 pint

Answer: <https://biology-forums.com/index.php?topic=399151>

Question 1669

Use of the wrong type of RTV silicone sealer could damage the _____.

- A) Crankshaft sensor
- B) Water pump
- C) Oxygen sensor
- D) Water pump gasket

Answer: <https://biology-forums.com/index.php?topic=398213>

Question 1670

What part controls mainline pressure in an electronically shifted automatic transmission?

- A) Modulator valve
- B) Spool valve
- C) Pressure control solenoid (force motor)
- D) Boost valve

Answer: <https://biology-forums.com/index.php?topic=400342>

Question 1671

The cylinder holes are called _____.

- A) Barrels
- B) Stroke
- C) Bores
- D) Rounders

Answer: <https://biology-forums.com/index.php?topic=398168>

Question 1672

Typical maximum rotor runout specifications are _____.

- A) 0.300 to 0.500 in. (8.0 to 13 mm)
- B) 0.030 to 0.050 in. (0.8 to 1.3 mm)
- C) 0.003 to 0.005 in. (0.08 to 0.13 mm)
- D) 0.0003 to 0.0005 in. (0.008 to 0.013 mm)

Answer: <https://biology-forums.com/index.php?topic=399755>

Question 1673

Wetted asbestos is considered to be _____.

- A) Solid waste
- B) Hazardous waste
- C) Poisonous
- D) Toxic

Answer: <https://biology-forums.com/index.php?topic=397521>

Question 1674

Technician A says that the block deck is the surface to which the cylinder head attaches and can be curved. Technician B says that core plugs are used to fill the holes in the block used for casting. Who is right?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398166>

Question 1675

The term R&R means _____.

- A) Remove and repair
- B) Remove and recondition
- C) Remove and replace
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=397452>

Question 1676

Technician A says that a turbocharger uses the normally wasted heat energy of the exhaust to turn an impeller at high speed. Technician B says that there is only one type of supercharger, the roots-type. Who is right?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397994>

Question 1677

The backlash is less than specifications (too low). This will cause the ring gear tooth pattern to be too close to the

- A) Heel B) Face C) Flank D) Toe

Answer: <https://biology-forums.com/index.php?topic=400282>

Question 1678

What type of screwdriver should be used if there is very limited space above the head of the fastener?

- A) Robertson screwdriver B) Impact screwdriver
C) Stubby screwdriver D) Offset screwdriver

Answer: <https://biology-forums.com/index.php?topic=397586>

Question 1679

Technician A says that the 3 wires on the TP sensor include a 5-volt reference voltage from PCM, plus the signal wire to PCM, and a ground wire to the engine block. Technician B says that the TP sensor is used by the PCM to determine torque converter engagement and transmission shift points. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399072>

Question 1680

Which of the following is NOT a component of an automatic temperature control system?

- A) Control head
B) Electrically or vacuum operated actuators
C) Temperature sensors
D) All of these are components of a semi-automatic temperature control system

Answer: <https://biology-forums.com/index.php?topic=398836>

Question 1681

Horn circuits are generally protected by a _____.

- A) Fuse B) Breaker bar C) Either A or B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398719>

Question 1682

Technician A says that gaskets are used to fill a space or gap between two objects to prevent leakage from occurring. Technician B says that there are many types of gaskets including cylinder head gaskets, valve cover gaskets, and timing cover gaskets. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398209>

Question 1683

A 4WD vehicle often uses a _____ to transmit torque to all four wheels.

- A) U-joints B) Transfer case C) Transaxle D) Drive shaft

Answer: <https://biology-forums.com/index.php?topic=397346>

Question 1684

Electric motors are better than an internal combustion engine to propel a vehicle because .

- A) They are quiet
B) They do not burn fuel and therefore do not release carbon dioxide into the environment
C) They produce high torque at low speeds
D) All of the above are correct

Answer: <https://biology-forums.com/index.php?topic=399420>

Question 1685

Two technicians are discussing overhauling master brake cylinders. Technician A says that the manufacturer may recommend replacement of the entire master cylinder assembly instead of an overhaul. Technician B says that many overhaul kits include replacement piston assemblies. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399542>

Question 1686

What term describes the process of passing electrical current through water to break it into oxygen and hydrogen?

- A) Electric induction B) hydro division C) Electrolysis D) None of these

Answer: <https://biology-forums.com/index.php?topic=399481>

Question 1687

Technician A says that cutting coil springs is an acceptable method of properly lowering a vehicle. Technician B says that all leaf springs are made of steel. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399947>

Question 1688

Technician A says that all port fuel injected systems use the speed density method. Technician B says that throttle body injection systems use the speed density method. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399181>

Question 1689

Technician A says that a cheater bar is an easy way to apply more torque to loosen a fastener. Technician B says that a cheater bar may cause a socket to shatter. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397604>

Question 1690

Clutch plate travel can be checked with _____.

- A) a micrometer B) a ball gauge C) a vernier caliper D) a feeler gauge

Answer: <https://biology-forums.com/index.php?topic=400393>

Question 1691

Technician A says that exhaust manifolds can be made from hard plastic or aluminum. Technician B says that many intake manifolds have an EGR valve that regulates the amount of recirculated exhaust that enters the engine in order to increase NO with subscript((x)) emissions. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397973>

Question 1692

Which metric unit of measure is used for volume measurement?

- A) Meter B) Centimeter C) Millimeter D) cc

Answer: <https://biology-forums.com/index.php?topic=397674>

Question 1693

Technician A says that torque steer is normal on some FWD cars, especially during heavy acceleration. Technician B says that broken engine mounts can cause abnormal torque steer. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400173>

Question 1694

Which of these is checked during an OBD II PCM initiated functionality test?

- A) ECT B) Brake switch
C) O2 sensor D) Transmission shift solenoids

Answer: <https://biology-forums.com/index.php?topic=399376>

Question 1695

The faster a starter motor rotates _____.

- A) The less current it draws from the battery B) The greater the amount of torque produced
C) The more current it draws from the battery D) The less CEMF is generated

Answer: <https://biology-forums.com/index.php?topic=398596>

Question 1696

Which component is used on FWD vehicles to support the engine and transmission?

- A) Perimeter frame B) Ladder frame C) Cradle D) Body mount

Answer: <https://biology-forums.com/index.php?topic=399933>

Question 1697

Technician A says that knowing if there are any stored diagnostic trouble codes (DTCs) may be helpful when checking for related technical service bulletins (TSBs). Technician B says that only a factory scan tool should be used to retrieve DTCs. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399385>

Question 1698

Technician A changes air compressor oil as part of routine maintenance. Technician B purges water out of air compressor tanks as part of routine maintenance. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397621>

Question 1699

A vehicle pulls to one side when braking. This could be caused by all of these EXCEPT _____.

- A) Bad master cylinder B) Restricted brake hose
C) Stuck caliper piston D) Unequal tire pressures

Answer: <https://biology-forums.com/index.php?topic=399728>

Question 1700

Engine cranking vacuum should be _____.

- A) 6-16 in. Hg B) 2.5 in. Hg or higher C) Over 25 in. Hg D) 17-21 in. Hg

Answer: <https://biology-forums.com/index.php?topic=398010>

Question 1701

All these are causes of catalytic converter failure EXCEPT _____.

- A) Contamination B) Incorrect air/ fuel mixture
C) Excessive temperature D) All of these are causes of converter failure.

Answer: <https://biology-forums.com/index.php?topic=399348>

Question 1702

Which statement regarding high voltage circuitry in HEVs is NOT correct?

- A) The system is disabled when the ignition switch is off
B) The HV system is not energized when the ICE is in idle stop mode and the electrical A/C compressor is running
C) The system is energized when the ICE is running and the vehicle is accelerating
D) None of these

Answer: <https://biology-forums.com/index.php?topic=399453>

Question 1703

While servicing a vehicle with modified strut front suspension, technician A makes sure the lower control arm is supported. Technician B says that the coil spring must be removed from the strut assembly to service a modified strut vehicle. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399981>

Question 1704

Which component allow the rear wheels to turn at different speeds while propelling the vehicle?

- A) Axle bearings B) Adjustable shims
C) Differential assembly D) None of these choices are correct.

Answer: <https://biology-forums.com/index.php?topic=400290>

Question 1705

Before an evaporative emission monitor will run, the fuel level must be where?

- A) At least 75% full

- B) Between 15% and 85%
- C) Over 25%
- D) The level in the tank is not needed to run the monitor.

Answer: <https://biology-forums.com/index.php?topic=399287>

Question 1706

The electrical terminals used for airbag systems are unique because they are plated with which of these metals?

- A) Gold plated B) Silver plated
- C) Tin plated heavy-gauge steel D) Solid copper

Answer: <https://biology-forums.com/index.php?topic=398758>

Question 1707

Which tool is used to measure U-Joint working angles?

- A) Micrometer B) Vernier caliper
- C) Dial indicator D) None of these is correct

Answer: <https://biology-forums.com/index.php?topic=400268>

Question 1708

An owner of a vehicle equipped with ABS brakes complained that whenever he tried to stop on icy or slippery roads, the brake pedal would pulse up and down rapidly. Technician A says that this is normal for many ABS units. Technician B says that the ABS unit is malfunctioning. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399495>

Question 1709

Which of these is also known as electrical potential?

- A) Volts B) Ohms C) Amps D) None of these

Answer: <https://biology-forums.com/index.php?topic=398287>

Question 1710

Technician A says that excessive axial end play is a sign that wheel bearings need service. Technician B says that an out-of-balance wheel is a sign that wheel bearings need service. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399626>

Question 1711

The steering torque sensor in an electric power steering system senses _____.

- A) Steering wheel torque B) Steering wheel direction
- C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400114>

Question 1712

A forged crankshaft has a _____.

- A) Wide parting line B) Thin parting line
- C) Parting line in one place D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=398176>

Question 1713

A positively charged atom is called a(n) _____.

- A) Quark B) Ion C) Neutron D) None of these

Answer: <https://biology-forums.com/index.php?topic=398282>

Question 1714

Oxides of nitrogen results from a combination of nitrogen and _____.

- A) Oxygen B) Hydrogen C) Carbon D) Nitrogen

Answer: <https://biology-forums.com/index.php?topic=399277>

Question 1715

What device passes AC interference to ground and blocks DC voltage, and is used to control radio interference?

- A) Capacitor B) Transistor C) Coil (inductor) D) Resistor

Answer: <https://biology-forums.com/index.php?topic=398779>

Question 1716

When replacing a failed compressor, it is also a good idea to _____.

- A) install an in-line filter B) replace the accumulator
C) flush the system D) All of these

Answer: <https://biology-forums.com/index.php?topic=398885>

Question 1717

A vehicle equipped with a coil spring front suspension and a leaf spring rear suspension "dog tracks" while driving on a straight, level road. Technician A says that a broken center bolt could be the cause. Technician B says defective rear shock absorbers could be the cause. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399982>

Question 1718

Technician A says that the steering system changes rotary motion into lateral motion. Technician B says that steering ratio is influenced by the number of teeth on the worm gear. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400058>

Question 1719

Which number is the smallest?

- A) .33 B) 3/8 C) 1/16 D) .25

Answer: <https://biology-forums.com/index.php?topic=397734>

Question 1720

Which of the following is NOT part of the hazard warning lamp circuit?

- A) Head lamps B) Flasher unit C) Turn signal lamps D) Instrument panel

Answer: <https://biology-forums.com/index.php?topic=398683>

Question 1721

A hydraulic press is being used to separate a bearing from a shaft. What should be used to cover the bearing during the pressing operation?

- A) A fender cover B) A shop cloth C) A paper towel D) A brake drum

Answer: <https://biology-forums.com/index.php?topic=397617>

Question 1722

A lateral acceleration sensor is used to provide the suspension control module with feedback regarding _____ force.

- A) Braking B) Cornering C) Acceleration D) All of the above

Answer: <https://biology-forums.com/index.php?topic=400012>

Question 1723

Which tier of emission standards became effective in 2009?

- A) Tier 3 B) Tier 1 C) Tier 2 D) None of these

Answer: <https://biology-forums.com/index.php?topic=397797>

Question 1724

When compared to a gasoline engine, the diesel engine may be _____ than a similar size engine.

- A) Quieter B) Heavier
C) Lighter D) Easier to start in cold weather

Answer: <https://biology-forums.com/index.php?topic=397884>

Question 1725

Technician A says that a steel piston should be cleaned with sandpaper to remove rust. Technician B says that brake assembly fluid or clean brake fluid should be used to lubricate the caliper pistons before installing in the caliper. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399717>

Question 1726

Which type of valve guide is most used in a cast-iron head?

- A) Thin-wall sleeve type B) Powdered metal (PM)
C) Bronze D) Integral

Answer: <https://biology-forums.com/index.php?topic=398088>

Question 1727

Technician A says that each coil spring is specifically engineered to be installed on one particular side of the vehicle. Technician B says that rubber spring pockets prevent excessive noise. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399946>

Question 1728

A diode is a semiconductor device that _____.

- A) Blocks current in both direction B) Blocks current in one direction
C) Reverses current flow D) Causes voltage spikes

Answer: <https://biology-forums.com/index.php?topic=398519>

Question 1729

Technician A says shift solenoids are used on some transmissions to control upshifts and downshifts. Technician B says governor pressure is used on some transmissions to control upshifts and downshifts. Who is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400351>

Question 1730

All of these could cause the wiper motor to run but NOT move the wipers, EXCEPT _____.

- A) Poor ground connection at the wiper switch B) Loose linkage to the motor connection
C) Stripped gears in the gearbox D) Loose or separated motor-to-gearbox connection

Answer: <https://biology-forums.com/index.php?topic=398722>

Question 1731

The IAT is being tested. After the vehicle has been allowed to cool for several hours, a scan tool is used to observe the IAT, and compare it to the engine coolant temperature (ECT). The two temperatures should be within how many degrees F of each other:

- A) 15 B) 5 C) 25 D) 10

Answer: <https://biology-forums.com/index.php?topic=399058>

Question 1732

The friction between two surfaces is affected by all of these EXCEPT _____.

- A) Heat B) Frictional material
C) Surface finish D) Speed difference between the two surfaces

Answer: <https://biology-forums.com/index.php?topic=399509>

Question 1733

Technician A says that wood can be used with a vise to protect the surfaces of clamped components. Technician B says that 4-and 6-inch vises are the most commonly used. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397631>

Question 1734

Most sealed bearings used on the front wheels of front-wheel-drive vehicles are usually which type?

- A) Needle roller bearing B) Roller bearing
C) Single tapered roller bearing D) Double row ball bearing

Answer: <https://biology-forums.com/index.php?topic=399615>

Question 1735

Reserve capacity is the number of minutes a battery can produce 10.5 volts with how many amps?

A) 25 B) 10 C) 30 D) 20

Answer: <https://biology-forums.com/index.php?topic=398559>

Question 1736

The owner of a pickup wants to cut the coil springs to lower the vehicle. Technician A says that the ride will be harsher than normal if the springs are cut. Technician B says that the springs could be damaged, especially if a cutting torch is used to cut the springs. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399930>

Question 1737

Technician A says most limited-slip differentials rely on clutches that connect each side gear to the differential case. Technician B says the inward thrust of the side gears increases as wheel slippage increases. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400294>

Question 1738

How much of the air needed by the engine flows through the PCV system when the engine is at idle speed?

A) 1-3% B) 5-10% C) 10-20% D) Up to 30%

Answer: <https://biology-forums.com/index.php?topic=399320>

Question 1739

Technician A says that the convex side of the ring gear is the drive side on most rear axle assemblies. Technician B says that the convex side of the ring gear is the drive side on differentials used in the front of many four-wheel-drive vehicles. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400279>

Question 1740

Coolant can be checked using _____.

A) Boiling/freezing points using a refractometer and hydrometer
B) Test strips
C) Visual inspection
D) All of the above

Answer: <https://biology-forums.com/index.php?topic=397813>

Question 1741

Technician A says that temporary certificates are given to technicians that pass the exam but have not met the work requirement. Technician B says that the work experience form must be complete before ASE will issue a certificate. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397470>

Question 1742

Electromotive force is another term for _____.

A) Resistance B) Voltage C) Current D) None of these

Answer: <https://biology-forums.com/index.php?topic=398288>

Question 1743

When the ignition is first turned on a click noise is heard from under the hood of a vehicle equipped with ETC. Technician A says that this is the normal operation of the ETC self-test. Technician B says that the TAC motor should not move unless the engine is running. Which technician is correct?

A) Technician A B) Technician B
C) Both technician A and B D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399229>

Question 1744

What is true regarding protective gloves worn during HV system service?

A) Rubber gloves should be checked for leaks before each use
B) Leather gloves are worn over the rubber gloves to protect the rubber from damage
C) Both A and B
D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399448>

Question 1745

Technician A says that a compression test can be used to test the condition of connecting rods. Technician B says that a cylinder leakage test fills the cylinder with compressed air, and the gauge indicates the percentage of leakage. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398015>

Question 1746

What part must be replaced if dropped?

- A) Extension housing B) Pump C) Pan D) Torque converter

Answer: <https://biology-forums.com/index.php?topic=400381>

Question 1747

A type _____ DTC is set if an emission problem may cause damage to the catalytic converter.

- A) A B) B C) D D) C

Answer: <https://biology-forums.com/index.php?topic=399409>

Question 1748

The ratio of the volume of a cylinder with the piston at BDC to the volume of the cylinder with the piston at TDC is known as _____.

- A) Volume ratio B) Displacement C) Compression ratio D) None of these

Answer: <https://biology-forums.com/index.php?topic=397853>

Question 1749

Normal battery drain (parasitic drain) for a vehicle with computer and electronic circuits is _____.

- A) 2 to 3 amperes B) 20 to 30 milliamperes
C) 150 to 300 milliamperes D) None of the above

Answer: <https://biology-forums.com/index.php?topic=398577>

Question 1750

A potentiometer usually has how many wires?

- A) Three B) Four C) Two D) None of these

Answer: <https://biology-forums.com/index.php?topic=398294>

Question 1751

The sensor that measures the temperature of the air being drawn into the engine is called a(an) _____.

- A) IAT B) NTC thermistor C) PTC thermistor D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=399055>

Question 1752

The threaded movable part that rotates on a micrometer is called the _____.

- A) Barrel B) Anvil C) Spindle D) Thimble

Answer: <https://biology-forums.com/index.php?topic=397664>

Question 1753

Which of the following may be part of a radial tire belt?

- A) Rayon B) Nylon
C) Steel mesh D) All of these are correct

Answer: <https://biology-forums.com/index.php?topic=399870>

Question 1754

The parking brake switch is in a circuit that illuminates a _____ color light in the instrument cluster.

- A) Amber B) Green C) Red D) None of these

Answer: <https://biology-forums.com/index.php?topic=398703>

Question 1755

Four wheel steering is being discussed. Technician A says that opposite phase steering is best at high speeds. Technician B says that same phase steering is best at low speeds. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400076>

Question 1756

What type of hammer is plastic coated, has a metal casing inside, and is filled with small lead balls?

- A) Plastic hammer B) Sledge hammer C) Soft blow hammer D) Dead blow hammer

Answer: <https://biology-forums.com/index.php?topic=397588>

Question 1757

Wire A has a diameter of 0.032 inches. Wire B has a diameter of 0.102 inches and an AWG rating of 10. Which of these is MOST likely to be the AWG rating of Wire A?

- A) 14 ga. B) 5 ga. C) 12 ga. D) 20 ga.

Answer: <https://biology-forums.com/index.php?topic=398419>

Question 1758

Which exhaust emission is formed by high combustion chamber temperatures?

- A) CO₂ B) CO C) HC D) NO_x

Answer: <https://biology-forums.com/index.php?topic=399316>

Question 1759

A capacitor can also be called a _____.

- A) DRAM B) Dielectric C) Condenser D) Farad

Answer: <https://biology-forums.com/index.php?topic=398469>

Question 1760

Technician A says that the top mounting nut for a rear shock absorber is often located inside the vehicle. Technician B says that shocks, struts, and springs should always be replaced in axle sets. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400009>

Question 1761

Which of these oils contains no detergents or additives and is NOT suitable for use in engines?

- A) SG B) SA C) SM D) None of these

Answer: <https://biology-forums.com/index.php?topic=397942>

Question 1762

It is recommended by many experts that an air impact wrench not be used to remove or install the drive axle shaft nut because the impacting force can damage the hub bearing.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=400260>

Question 1763

Which U.S. manufacturer produced the first vehicle with four-wheel antilock brakes?

- A) Lincoln B) Chrysler C) American Motors D) Chevrolet

Answer: <https://biology-forums.com/index.php?topic=397350>

Question 1764

A four-cylinder engine fires one cylinder at every _____ degrees of crankshaft rotation.

- A) 120 B) 90 C) 180 D) 270

Answer: <https://biology-forums.com/index.php?topic=398178>

Question 1765

An electronically shifted automatic transmission operates okay in reverse, but the vehicle does not shift at all when moving forward. Technician A says that a defective torque converter is the likely cause. Technician B says that a defective shift solenoid could be the cause. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400369>

Question 1766

Technician A says that an alternator overrunning pulley is used to reduce vibration and noise, Technician B says that an overrunning alternator pulley

or dampener uses a one-way clutch. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398638>

Question 1767

Technician A says that employers must inform their employees about any hazardous chemicals used in the work place by using Material Safety Data Sheets. Technician B says that the work place Hazardous Materials Information Systems is the Canadian version of the Material Safety Data Sheets. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397532>

Question 1768

What is 26 out of 87 in percentage?

- A) 29.97% B) 11.3% C) 61.0% D) 33.5%

Answer: <https://biology-forums.com/index.php?topic=397730>

Question 1769

Technician A says that the labyrinth seal (drum groove) helps to keep water from getting into a drum brake. Technician B says that only synthetic brake grease, lithium brake grease or anti-seize compound should be used as a brake lubricant. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399647>

Question 1770

Technician A says that OAT type coolant should be changed every 2 years. Technician B says that IAT type coolant should be changed every 2 years. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397902>

Question 1771

Technician A says that front and rear U-joints on a RWD axle should operate at different angles to prevent vibration. Technician B says that front and rear U-joints on a RWD axle should operate at equal angles to prevent vibration. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400238>

Question 1772

All batteries should be in a secure bracket that is bolted to the vehicle to prevent physical damage to the battery.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=398570>

Question 1773

Two technicians are discussing distributor ignition. Technician A says that the pickup coil or optical sensor in the distributor is used to pulse the ignition module (igniter). Technician B says that some distributor ignition systems use an optical sensor. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398965>

Question 1774

A system flush is required when any major power steering repair is performed.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=400103>

Question 1775

Technician A says that fuel cells are categorized according to the type of electrolyte used. Technician B says that all fuel cells operate most efficiently at 500 deg F. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399475>

Question 1776

Technician A says that for best results, loosen the fastener immediately after spraying it with penetrating oil. Technician B says that rusted fasteners

may be loosened by tapping with a hammer. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397580>

Question 1777

A defective vacuum brake booster will cause a _____.

- A) Low brake pedal B) Slight hiss noise when the brake pedal is depressed
C) Hard brake pedal D) Soft (spongy) brake pedal

Answer: <https://biology-forums.com/index.php?topic=399773>

Question 1778

The starter motor can produce up to _____ horsepower.

- A) 20 B) 5 C) 8 D) None of these

Answer: <https://biology-forums.com/index.php?topic=398602>

Question 1779

Cam bearings should be installed _____.

- A) Dry B) Oiled
C) With 0.100 inches of crush D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=398244>

Question 1780

An alternator stator with three windings usually has how many diodes?

- A) 4 B) 6 C) 2 D) 8

Answer: <https://biology-forums.com/index.php?topic=398647>

Question 1781

Technician A says that volatility is a measure of how easily gasoline evaporates. Technician B says that Reid Vapor Pressure (RVP) is one way to express how volatile a gasoline mixture is. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398899>

Question 1782

A service technician removed the inspection/fill plug from the differential of a rear-wheel drive vehicle and gear lube started to flow out. Technician A says that the technician should quickly replace the plug to prevent any more loss of gear lube. Technician B says to catch the fluid and allow the fluid to continue to drain. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397818>

Question 1783

Technician A says that there is often more than one circuit being protected by each fuse. Technician B says that more than one circuit often shares a single ground connector. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398458>

Question 1784

Wiring schematics have which information about circuits?

- A) Circuit number B) Wire color C) Wire size D) All of these

Answer: <https://biology-forums.com/index.php?topic=398467>

Question 1785

When working on a hybrid vehicle, which type of meter is recommended?

- A) CAT II or CAT III B) CAT I or CAT II C) CAT III or CAT IV D) Any of these is OK

Answer: <https://biology-forums.com/index.php?topic=398386>

Question 1786

The electrohydraulic power steering pump provides hydraulic power to the steering gear and _____.

- A) Hydraulic level control system B) Cooling fan clutch

C) Brake booster D) Valve lifters

Answer: <https://biology-forums.com/index.php?topic=400116>

Question 1787

The MIL is turned off under any of the following conditions, EXCEPT _____.

- A) Codes are cleared with a scan tool
- B) PCM diagnostic link is grounded
- C) Power to the PCM is disconnected
- D) Vehicle is driven on 3 consecutive trips with a warm-up cycle, without detecting a fault

Answer: <https://biology-forums.com/index.php?topic=399368>

Question 1788

If any crankshaft is ground, it must also be _____.

- A) Polished
- B) Chrome plated
- C) Shot peened
- D) Externally balanced

Answer: <https://biology-forums.com/index.php?topic=398181>

Question 1789

A remote keyless control stops working. Technician A says that the battery in the remote could be dead. Technician B says the key fob may have to be resynchronized. Who is right?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398735>

Question 1790

To read a dial caliper, _____ the reading on the dial to the reading on the blade.

- A) Add
- B) Multiply
- C) Subtract
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=397684>

Question 1791

What could be the problem if a noid light remains on (does not flash) with the engine cranking?

- A) Low system voltage.
- B) Blown injector fuse.
- C) High injector resistance.
- D) Short to ground in the injector ground circuit, or defective PCM.

Answer: <https://biology-forums.com/index.php?topic=399247>

Question 1792

Technician A says that fuel pressure regulators are often located on the return side of the fuel rail. Technician B says that the fuel pressure regulator is located at the fuel tank on vehicles using mechanical returnless systems. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399191>

Question 1793

Technician A says an ABS antilock system decreases pressure to the hydraulic brake circuits on wheels with excessive wheel slippage during deceleration. Technician B says a traction control system increases pressure to the hydraulic brake circuit on wheels with excessive wheel slippage during acceleration. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399807>

Question 1794

The four basic computer functions include _____.

- A) Data gathering, processing, output, and evaluation
- B) Input, processing, storage, and output
- C) Sensing, calculating, actuating, and processing
- D) Writing, processing, printing, and remembering

Answer: <https://biology-forums.com/index.php?topic=399015>

Question 1795

Most late model vehicles will use _____ as an intake manifold gasket.

- A) Cork
- B) Plastic/rubber
- C) RTV
- D) Cork-rubber

Answer: <https://biology-forums.com/index.php?topic=398215>

Question 1796

A vehicle with the engine in the front can be _____.

- A) Rear wheel drive B) Four wheel drive C) Front wheel drive D) Any of these

Answer: <https://biology-forums.com/index.php?topic=397782>

Question 1797

Technician A says that copper jumper cables are better than aluminum jumper cables. Technician B says that aluminum jumper cables are better than copper jumper cables. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398446>

Question 1798

Technician A says that low battery voltage can cause driveability problems. Technician B says that the charging voltage should be over 15 volts when the engine is idling. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399396>

Question 1799

Fuel pump pressure is too low after engine start-up. Which of these could be the cause?

- A) Plugged fuel filter B) Excessive system voltage
C) Defective fuel pump relay D) Restricted fuel return line

Answer: <https://biology-forums.com/index.php?topic=399161>

Question 1800

The API gravity of diesel fuel should be about _____.

- A) 45 B) 15 C) 25 D) 35

Answer: <https://biology-forums.com/index.php?topic=398942>

Question 1801

The bleeder is opened at a caliper and no brake fluid flows out. Technician A says that this is normal and that brake fluid should not flow or drip out of an open bleeder valve. Technician B says that the vent port in the master cylinder may be blocked. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399597>

Question 1802

Which of these is NOT a purpose or function of the MAP sensor?

- A) Measures engine speed B) Measures the load on the engine
C) Calculates fuel delivery based on altitude D) Helps diagnose the EGR system

Answer: <https://biology-forums.com/index.php?topic=399083>

Question 1803

The skin effect involves _____ current flowing around the outside of a circuit.

- A) AC B) Equal C) DC D) None of these

Answer: <https://biology-forums.com/index.php?topic=398425>

Question 1804

During tire construction, after the tire has been heated to 300 degrees F (150 degrees C) for 30 minutes, it is called a _____.

- A) Green tire B) Cured tire C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399872>

Question 1805

The following statements are all correct EXCEPT _____.

- A) Waste spark systems do not need a timing signal from the PCM when cranking the engine.
B) Waste spark systems use a signal from the PCM once the engine is running.
C) Up-integrated ignition controls use the PCM to control ignition timing.
D) No ignition system uses the PCM to control ignition timing.

Answer: <https://biology-forums.com/index.php?topic=398987>

Question 1806

Technician A says that wear indicator ball joints should be unloaded to check properly. Technician B says that wear indicator ball joints should be checked with the weight of the vehicle on the ground. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399972>

Question 1807

A typical blower motor draws about _____ amperes on high speed.

- A) 3 B) 5 C) 7 to 8 D) 12 to 15

Answer: <https://biology-forums.com/index.php?topic=398724>

Question 1808

In a typical integral rear disc brake caliper, the parking brake cable moves the _____.

- A) Auxiliary piston B) Caliper C) Rotor D) Actuator screw

Answer: <https://biology-forums.com/index.php?topic=399733>

Question 1809

An engine oil cooler usually uses _____ to cool the oil.

- A) Coolant
B) Air
C) Automatic transmission fluid after it flows through the radiator
D) Air conditioning evaporator output

Answer: <https://biology-forums.com/index.php?topic=397956>

Question 1810

A capacitor can be used in what components?

- A) A radio B) A microphone C) A speaker D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398476>

Question 1811

When manually adjusting brakes equipped with automatic adjusters, the _____ must be pushed or held out of the way.

- A) Adjuster lever B) Return spring C) Starwheel adjuster D) Adjuster cable

Answer: <https://biology-forums.com/index.php?topic=399676>

Question 1812

To help ensure proper engine cooling, most cylinder head designs use _____.

- A) Large exhaust crossover passages B) Short exhaust ports and long intake ports
C) Coolant passages restricted by head gaskets D) Long exhaust ports and short intake ports

Answer: <https://biology-forums.com/index.php?topic=398094>

Question 1813

Technician A says that the fuel system should be diagnosed first in a no-start condition. Technician B says that the ignition system trigger device is used to synchronize fuel injection. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399260>

Question 1814

Which type of antilock braking system (ABS) requires the use of four wheel speed sensors?

- A) Four channel B) Two channel C) One channel D) Three channel

Answer: <https://biology-forums.com/index.php?topic=399794>

Question 1815

The following statements are all correct EXCEPT _____.

- A) Some systems monitor EGR operation by using a MAP sensor.
B) Low restriction exhaust systems will have no effect on EGR system operation.
C) The PCM controls vacuum applied to vacuum operated EGR valves.
D) A potentiometer is used to determine EGR valve position on many OBD-II systems.

Answer: <https://biology-forums.com/index.php?topic=399311>

Question 1816

Inner CV joints must _____.

- A) Become shorter or longer as the suspension moves
- B) Allow the wheels to travel up and down over bumps
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400252>

Question 1817

A grease labeled NLGI #2 GC is suitable for use on what vehicle components?

- A) Chassis parts B) Door hinges only
- C) Both wheel bearings and chassis parts D) Wheel bearings

Answer: <https://biology-forums.com/index.php?topic=397817>

Question 1818

The upper radiator hose collapses when the engine cools. What is the most likely cause?

- A) A defective pressure cap
- B) The spring is missing from the upper radiator hose which is used to keep it from collapsing
- C) A defective upper radiator hose
- D) A defective thermostat

Answer: <https://biology-forums.com/index.php?topic=397903>

Question 1819

A vehicle will pull to the side with the least positive caster.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=400128>

Question 1820

An alternator could test as producing lower-than-normal output, yet be okay, if the _____.

- A) Drive belt is loose or slipping B) Engine speed is not high enough during testing
- C) Battery is weak or defective D) Any of the above

Answer: <https://biology-forums.com/index.php?topic=398661>

Question 1821

The vehicle identification number is how many characters long?

- A) 17 B) 21 C) 10 D) 12

Answer: <https://biology-forums.com/index.php?topic=397783>

Question 1822

Technician A says that using the space saving small spare tire may trigger an ABS amber warning lamp. Technician B says the use of the small spare tire on either front wheel may trigger the red brake warning lamp. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399811>

Question 1823

Technician A says that the brake pedal height should be checked as part of a thorough visual inspection of the brake system. Technician B says that the pedal free play and pedal reserve should be checked. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399541>

Question 1824

What is the part of the planetary gearset called that is being held by a band?

- A) Simple gearset B) Compound gearset C) Held member D) Reaction member

Answer: <https://biology-forums.com/index.php?topic=400345>

Question 1825

Which computer sensor should be replaced to help ensure that the engine will be operating at the correct air-fuel ratio?

- A) Manifold absolute pressure sensor B) Throttle position sensor
C) Oxygen sensor D) Engine coolant temperature sensor

Answer: <https://biology-forums.com/index.php?topic=398255>

Question 1826

Which of these components lets the PCM (Powertrain Control Module) know how fast you want to accelerate?

- A) Throttle Position (TP) Sensor B) Idle air control valve
C) CKP (Crankshaft Position) Sensor D) O2S (Oxygen Sensor)

Answer: <https://biology-forums.com/index.php?topic=399077>

Question 1827

A good engine should produce how much compression during a running (dynamic) compression test at idle?

- A) 30-60 PSI B) 60-90 PSI C) 150-200 PSI D) 100-150 PSI

Answer: <https://biology-forums.com/index.php?topic=398006>

Question 1828

Technician A says the converter pump is attached to the engine and turns as the engine rotates. Technician B says the turbine is attached to the engine and turns as the engine rotates. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400330>

Question 1829

If a cooling system operates at too cool of a temperature, the engine will _____.

- A) Pre-ignite or detonate B) Produce more torque
C) Produce higher emissions D) Have more efficiency

Answer: <https://biology-forums.com/index.php?topic=397921>

Question 1830

Why is having a good driving record important for the shop?

- A) Permits you to use your own vehicle to get parts B) Lowers insurance costs
C) Allows the use of a company vehicle D) Allows you to drive customers vehicles

Answer: <https://biology-forums.com/index.php?topic=397400>

Question 1831

Intake charge velocity has to be _____ to prevent fuel droplet separation.

- A) 100 feet per second B) 50 feet per second C) 25 feet per second D) 300 feet per second

Answer: <https://biology-forums.com/index.php?topic=397962>

Question 1832

A lack of power from an engine equipped with gasoline direct injection could be due to _____.

- A) Noisy injectors B) Carbon on the injectors
C) Carbon on the intake valves D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=399208>

Question 1833

Two technicians are discussing variable valve timing. Technician A says that changing the exhaust valve timing helps reduce exhaust emissions. Technician B says that changing the intake valve timing helps increase low-speed torque. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398118>

Question 1834

Technician A that says free and positive are two types of valve rotators. Technician B says that valve grinding should start with truing the valve tip; then the face should be refinished. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398110>

Question 1835

With which signal pattern is the RMS reading the same as the average reading?

- A) Square wave B) Nonsymmetric C) Sine wave D) None of these

Answer: <https://biology-forums.com/index.php?topic=398383>

Question 1836

When changing a timing belt it is recommended that the _____ also be replaced.

- A) Air pump seal B) Air filter C) Air intake hoses D) Front crankshaft seal

Answer: <https://biology-forums.com/index.php?topic=398038>

Question 1837

Two technicians are discussing air shocks. Technician A says that air is forced through small holes to dampen the ride. Technician B says that air shocks are conventional hydraulic shock absorbers with an airbag to control vehicle ride height. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399929>

Question 1838

A box drawn with dashed lines in a wiring diagram indicates _____.

- A) A portion of a component B) A complete circuit
C) A complete component D) None of these

Answer: <https://biology-forums.com/index.php?topic=398464>

Question 1839

Micrometers are calibrated using a _____.

- A) Gauge rod B) Metric ruler C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397677>

Question 1840

A valve seat should be concentric to the valve guide to a maximum TIR (total indicator runout) of _____.

- A) 0.006 in. B) 0.002 in. C) 0.004 in. D) 0.0015 in

Answer: <https://biology-forums.com/index.php?topic=398102>

Question 1841

What is true of ULEV II vehicles?

- A) HC and CO levels are nearly 50% lower than LEV II vehicles
B) It has been certified under phase II standards
C) Both A and B
D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397806>

Question 1842

All the criteria below are used by the EPA to determine if a substance can be called "used oil," EXCEPT _____.

- A) Origin B) Color C) Contaminants D) Use

Answer: <https://biology-forums.com/index.php?topic=397537>

Question 1843

The backing plate is a component of which type brake assembly?

- A) Disc B) Parking brake C) Drum D) None of these

Answer: <https://biology-forums.com/index.php?topic=399501>

Question 1844

E85 means that the fuel is made from _____.

- A) Pure ethyl alcohol B) 85% ethanol, 15% gasoline
C) Ethanol that has 15% water D) 85% gasoline, 15% ethanol

Answer: <https://biology-forums.com/index.php?topic=398911>

Question 1845

A typical lawnmower should be used with hearing protection

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=397502>

Question 1846

Technician A says that the red brake warning lamp on the dash will light if there is a hydraulic failure or low brake fluid level. Technician B says the that red brake warning lamp on the dash will light if there is a fault in the ABS. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399505>

Question 1847

The number of threads per inch is referred to as _____.

- A) Gauge B) Pitch C) Grade D) None of these

Answer: <https://biology-forums.com/index.php?topic=397561>

Question 1848

As the load on an engine increases, manifold vacuum decreases and the manifold absolute pressure _____.

- A) Increases
B) Remains constant (absolute)
C) Decreases
D) Changes with barometric pressure only (altitude or weather)

Answer: <https://biology-forums.com/index.php?topic=399078>

Question 1849

Clamping diodes _____.

- A) Can suppress transient voltages
B) Are connected into a circuit with the positive voltage source to the cathode and the negative voltage to the anode
C) Are called despiking diodes
D) Are all of the above

Answer: <https://biology-forums.com/index.php?topic=398512>

Question 1850

Capacitors are commonly used as a _____.

- A) Noise filter B) Timer C) Voltage supply D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398470>

Question 1851

The intake valve opens at 39° BTDC (before top dead center) and closes at 71° ABDC (After bottom dead center). The exhaust valve opens at 78° BBDC (before bottom dead center) and closes at 47° ATDC (after top dead center). Which of these is correct regarding this cam timing?

- A) Intake valve duration is 110° B) Exhaust valve duration is 125°
C) Overlap is 86° D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=398121>

Question 1852

The TP sensor affects the operation of all of these, EXCEPT _____.

- A) Air-conditioning compressor clutch operation B) Correcting for rich and lean air-fuel mixtures
C) Torque converter clutch operation D) Clear flood mode operation

Answer: <https://biology-forums.com/index.php?topic=399071>

Question 1853

Avoid topping off the fuel tank because _____.

- A) The extra fuel simply spills onto the ground
B) The extra fuel goes into the expansion area of the tank and is not used by the engine
C) It can saturate the charcoal canister
D) The extra fuel increases vehicle weight and reduces performance

Answer: <https://biology-forums.com/index.php?topic=398895>

Question 1854

On pushrod engines, camshaft journal diameter often _____ toward the rear of the engine.

- A) Decreases B) Increases C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397679>

Question 1855

What type of manual includes time needed to perform service procedures?

- A) Flat rate manuals B) Parts guide C) Unit repair manuals D) Owners manuals

Answer: <https://biology-forums.com/index.php?topic=397757>

Question 1856

Which diesel injection system requires the use of a glow plug?

- A) Common rail B) Direct injection
C) Distributor injection D) Indirect injection (IDI)

Answer: <https://biology-forums.com/index.php?topic=397859>

Question 1857

Most manufacturers specify a maximum axial play for ball joints of about _____.

- A) 0.050 in. B) 0.010 in. C) 0.030 in. D) 0.003 in.

Answer: <https://biology-forums.com/index.php?topic=399953>

Question 1858

Cycles per second are expressed in _____.

- A) Slope B) Hertz C) Pulse width D) Duty cycle

Answer: <https://biology-forums.com/index.php?topic=398394>

Question 1859

Technician A says the gears in a planetary gearset are in constant mesh. Technician B says a planetary gearset has a ring gear and pinion gears. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400339>

Question 1860

Incorrect or unequal U-joint working angles are most likely to be caused by _____.

- A) Defective or damaged U-joints B) A collapsed engine or transmission mount
C) A dry output shaft spline D) A bent drive shaft

Answer: <https://biology-forums.com/index.php?topic=400254>

Question 1861

Which chemical is used to strengthen lead grids in maintenance-free batteries?

- A) Copper B) Antimony C) Calcium D) None of these

Answer: <https://biology-forums.com/index.php?topic=398564>

Question 1862

If the resistance and the voltage are known, what is the formula for finding the current (amperes)?

- A) $I = E \times R$ B) $I = E / R$ C) $E = I \times R$ D) $R = E \times I$

Answer: <https://biology-forums.com/index.php?topic=398332>

Question 1863

0.500 is expressed in fraction form as _____.

- A) 1/5 B) 1/2 C) 5/100 D) 0/5

Answer: <https://biology-forums.com/index.php?topic=397745>

Question 1864

Credit for how many years of work experience may be substituted by attending automotive service training?

- A) None-no substitution for work experience is permitted
B) 2 years
C) 1 year
D) 3 years

Answer: <https://biology-forums.com/index.php?topic=397461>

Question 1865

Which fuel cell is best suited to automotive applications?

- A) MCFC B) PAFC C) PEM D) None of these

Answer: <https://biology-forums.com/index.php?topic=399476>

Question 1866

Technician A says a refrigerant identifier is only needed when the technician is unsure of the refrigerant used in an AC system. Technician B says some refrigerant identifiers can measure the amount of moisture in the refrigerant system to aid in diagnosis. Who is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398881>

Question 1867

Which angle determines the thrust angle?

- A) Rear toe B) Rear camber
C) Front caster, SAI, and included angle D) Front toe

Answer: <https://biology-forums.com/index.php?topic=400124>

Question 1868

In an overall bleeding sequence, which part should be bled first?

- A) Combination valve B) Master cylinder C) Brake calipers D) Wheel cylinders

Answer: <https://biology-forums.com/index.php?topic=399607>

Question 1869

Strut rods, if they are adjustable, can be used to adjust which angle?

- A) Caster B) Camber C) Toe-out on turns D) Toe

Answer: <https://biology-forums.com/index.php?topic=400151>

Question 1870

Of the alternative fuels listed in the text, which has the highest octane?

- A) Ethanol B) Propane C) Methanol D) CNG

Answer: <https://biology-forums.com/index.php?topic=398922>

Question 1871

How are most turbochargers lubricated?

- A) By an internal oil reservoir
B) By greased bearings
C) By engine oil under pressure through lines from the engine
D) No lubrication is needed because the incoming air cools the turbocharger

Answer: <https://biology-forums.com/index.php?topic=397986>

Question 1872

The parking brake performance test must be performed with the vehicle facing _____.

- A) Downhill B) Uphill C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399747>

Question 1873

Two technicians are discussing wheel bearings. Technician A says that conventional tapered roller bearings as used on the front of most rear-wheel-drive vehicles should be slightly loose when adjusted properly. Technician B says that the spindle nut should not be tightened more than finger tight as the final step. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399624>

Question 1874

All of the following are types of brake fade EXCEPT _____.

- A) Rotor fade B) Mechanical fade C) Gas fade D) Lining fade

Answer: <https://biology-forums.com/index.php?topic=399511>

Question 1875

Technician A says that test booklets are gathered after the exam to be reused during the next administration. Technician B says that you will receive a

summary of the questions you missed. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397475>

Question 1876

The torque converter clutch increases efficiency by _____.

- A) Eliminating converter slippage
B) Allowing quicker starts in first gear
C) Disconnecting the torque converter from the engine at a stop
D) None of these

Answer: <https://biology-forums.com/index.php?topic=400333>

Question 1877

Which is NOT a type of brake drum construction?

- A) Centrifugally cast B) Bimetallic C) Composite D) Solid composite

Answer: <https://biology-forums.com/index.php?topic=399762>

Question 1878

The ASE tests are offered _____.

- A) In hundreds of locations
B) In electronic form at different times throughout the year
C) Both A and B
D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397468>

Question 1879

The preferred method to separate tapered chassis parts is to use _____.

- A) A torch to heat the joint until it separates
B) A pickle fork
C) A drill to drill out the tapered part
D) A puller tool or two hammers to shock and separate the taper

Answer: <https://biology-forums.com/index.php?topic=399954>

Question 1880

A typical DSO display screen is arranged in an _____ grid.

- A) 8x8 B) 8x10 C) 6x8 D) None of these

Answer: <https://biology-forums.com/index.php?topic=398400>

Question 1881

Oil viscosity refers to which of these?

- A) Most important property of lubricating oil B) Tendency of oil to resist flowing
C) Tendency of oil to increase flow D) Divided into body and fluidity

Answer: <https://biology-forums.com/index.php?topic=397938>

Question 1882

Technician A says that hard spots in a brake drum should be removed using a carbide-tip machining tool. Technician B says that the drum should be replaced if hard spots are discovered. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399750>

Question 1883

Technician A says that heat is measured in degrees. Technician B says that temperature is measured in degrees. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398792>

Question 1884

Which type of actuator uses an electromagnetic plunger to open and close a passage or move a linkage?

- A) Transistor B) LED C) Relay D) Solenoid

Answer: <https://biology-forums.com/index.php?topic=400034>

Question 1885

What part(s) wears rapidly if a vehicle equipped with an open differential spins one wheel on ice or snow for an extended period of time?

- A) Side gear B) Ring gear and pinion
C) Pinion and side gear thrust washers D) Pinion bearings

Answer: <https://biology-forums.com/index.php?topic=400286>

Question 1886

What is the purpose of evacuating the AC system?

- A) To eliminate any moisture inside the system B) To remove any foreign substances inside the system
C) Both A and B are correct D) Neither A nor B is correct

Answer: <https://biology-forums.com/index.php?topic=398880>

Question 1887

The fuel injector in a central port fuel injection system is called a(an) _____.

- A) Poppet nozzle B) Injector tube C) Linear tip D) Injector element

Answer: <https://biology-forums.com/index.php?topic=399199>

Question 1888

The throttle position sensor used in the throttle body assembly of an electronic throttle control (ETC) system is what type?

- A) A single potentiometer
B) Two potentiometers that read in the opposite direction
C) A Hall-effect sensor
D) Either B or C

Answer: <https://biology-forums.com/index.php?topic=399222>

Question 1889

Which of these are effective telephone communication tips?

- A) Avoid the use of industry abbreviations like EGR B) Try to keep the conversation positive
C) Thank the caller for calling D) All of these

Answer: <https://biology-forums.com/index.php?topic=397446>

Question 1890

On a vehicle equipped with an occupant detection system, how much weight is required in the seat before the passenger airbag deploys at full force?

- A) More than 40 lbs, but less than 99 lbs. B) Between 10 and 37 lbs
C) More than 99 lbs. D) None of these

Answer: <https://biology-forums.com/index.php?topic=398768>

Question 1891

Which of these elements has the least resistance?

- A) Silver B) Copper C) Gold D) None of these

Answer: <https://biology-forums.com/index.php?topic=398293>

Question 1892

Technician A says that a leaking head gasket can be tested for by using a chemical tester. Technician B says that a leaking head gasket can be found using an exhaust gas analyzer. Who is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398011>

Question 1893

Where is the ambient temperature sensor usually mounted?

- A) In front of the radiator B) In the climate control plenum
C) At the intake cowl D) None of these is correct

Answer: <https://biology-forums.com/index.php?topic=398835>

Question 1894

In what year was the automatic transmission introduced in passenger vehicles?

- A) 1952 B) 1920 C) 1963 D) 1940

Answer: <https://biology-forums.com/index.php?topic=397363>

Question 1895

Which character of the VIN indicates the engine code?

- A) First B) Eighth C) Tenth D) None of these

Answer: <https://biology-forums.com/index.php?topic=397791>

Question 1896

Technician A says that a wastegate is used on most turbocharger systems to limit and control boost pressures. Technician B says that a relief valve is also used to keep the speed of the turbine wheel from speeding up during engine deceleration. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397996>

Question 1897

Two technicians are discussing electromagnetic induction. Technician A says that the induced voltage can be increased if the speed is increased between the conductor and the magnetic lines of force. Technician B says that the induced voltage can be increased by increasing the strength of the magnetic field. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398491>

Question 1898

Technician A says that disc brakes are self adjusting and the brake pedal height should not become lower as the disc brake pads wear. Technician B says that as the disc brake pads wear, the level of brake fluid in the master cylinder reservoir drops. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399683>

Question 1899

Which statement below is FALSE?

- A) Excessive lateral runout can cause a tramp-type vibration
B) Excessive radial runout can cause a tramp-type vibration
C) A tire out of balance statically can cause a tramp-type vibration
D) A tire out of balance dynamically can cause a shimmy-type vibration

Answer: <https://biology-forums.com/index.php?topic=399898>

Question 1900

A voltage drop test on the starter control circuit is used to test which of these starter component(s)?

- A) Commutator B) Starter solenoid and field coil
C) Wiring and connections D) Field coils

Answer: <https://biology-forums.com/index.php?topic=398622>

Question 1901

The starter motor on a V-6 engine is being tested for starter amperage draw. The initial surge current was about 210 amperes and about 160 amperes during cranking. Technician A says that the starter is defective and should be replaced because the current flow exceeds 200 amperes. Technician B says that this is normal current draw for a starter motor for a V-6 engine. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398613>

Question 1902

Which statement(s) is/are true about included angle?

- A) It is calculated by adding camber and SAI B) It is only measured on the front suspension
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400143>

Question 1903

A track rod is also called a _____.

- A) Handling link B) Panhard rod
C) Semi-independent rod D) Control rod

Answer: <https://biology-forums.com/index.php?topic=399991>

Question 1904

The ridge at the top of the cylinder _____.

- A) Represents a failure of the top piston ring to correctly seal
- B) Means that a crankshaft with an incorrect stroke was installed in the engine
- C) Should not be removed before removing pistons except when reboring the cylinders
- D) Is caused by the fact that the rings do not travel all the way to the top of the cylinder

Answer: <https://biology-forums.com/index.php?topic=398046>

Question 1905

Most fuel filters are designed to remove particles larger than _____.

- A) 1 micron
- B) 10 to 20 microns
- C) 100 microns
- D) 70 microns

Answer: <https://biology-forums.com/index.php?topic=399153>

Question 1906

Old brake shoes are often returned to the manufacturer when new friction material is installed. These old shoes are usually called the _____.

- A) Rim
- B) Web
- C) Nib
- D) Core

Answer: <https://biology-forums.com/index.php?topic=399663>

Question 1907

Some HEVs can operate using the electric motor alone or with the assist of the internal combustion engine.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=399432>

Question 1908

Generally, materials that are good conductors of heat are also good conductors of electricity.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=397721>

Question 1909

Technician A says that face shields should always be worn when using a bench grinder. Technician B says that face shields are not required if the bench grinder has built-in shields. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397629>

Question 1910

Computer speed is measured in _____.

- A) Voltage
- B) Bytes
- C) Clock speed (Hz)
- D) Baud rate

Answer: <https://biology-forums.com/index.php?topic=399018>

Question 1911

Define the term "treatment". What other term means the same thing? Give an example.

Answer: <https://biology-forums.com/index.php?topic=408258>

Question 1912

Which term describes the entire fuel cycle, from the time a fuel is extracted or produced until it is spent in the vehicle?

- A) Fuel efficiency
- B) Coefficient of energy transfer
- C) Well-to-wheel efficiency
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=399473>

Question 1913

Which of these is NOT a method of brake bleeding?

- A) Vacuum
- B) Pressure
- C) Release
- D) Manual

Answer: <https://biology-forums.com/index.php?topic=399605>

Question 1914

Technician A says that a tire pressure monitor system that uses a valve-stem-type transmitter is the direct reading type of TPMS. Technician B says that a tire pressure monitoring system that uses a sensor inside and strapped to the wheel is an indirect reading type of TPMS. Which technician is

correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399885>

Question 1915

A cracked exhaust manifold can cause false readings from which of these engine sensors?

- A) Oxygen sensor B) Exhaust temperature sensor
C) Intake air temperature sensor D) Coolant temperature sensor

Answer: <https://biology-forums.com/index.php?topic=397982>

Question 1916

An 8 cylinder engine with a bore of 4.000 inches and a stroke of 3.000 inches has a displacement of _____.

- A) 226 cubic inches B) 383 cubic inches C) 350 cubic inches D) 302 cubic inches

Answer: <https://biology-forums.com/index.php?topic=397851>

Question 1917

Two technicians are discussing Karman Vortex sensors. Technician A says that they contain a burn-off circuit to keep them clean. Technician B says that they contain a movable vane. Which technician is correct?

- A) Technician A only B) Technician B only
C) Both technician A and technician B D) Neither technician A nor technician B

Answer: <https://biology-forums.com/index.php?topic=399102>

Question 1918

Technician A says that aluminum brake drums use cast iron friction surfaces. Technician B says that up to 0.030 in. (0.8 mm) should be left after machining a drum to allow for wear. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399749>

Question 1919

Electric cooling fans are typically commanded on and off by the _____.

- A) Radiator pressure sensor (RPS) B) Cooling system delta sensor
C) Thermostat D) Powertrain control module (PCM)

Answer: <https://biology-forums.com/index.php?topic=397922>

Question 1920

Which type of safety device will keep the electric fuel pump from operating if it is tripped?

- A) Rollover valve B) Check valve C) Antisiphoning valve D) Inertia switch

Answer: <https://biology-forums.com/index.php?topic=399148>

Question 1921

A U type DTC indicates a problem with _____.

- A) Communication related systems B) Powertrain
C) Suspension system D) Body and accessories

Answer: <https://biology-forums.com/index.php?topic=399370>

Question 1922

A wide band oxygen sensor was first used on a Honda in what model year?

- A) 1996 B) 1992 C) 2000 D) 2006

Answer: <https://biology-forums.com/index.php?topic=399124>

Question 1923

When brake linings are replaced, the _____ should be inspected.

- A) Condition of the wheel cylinders B) Camber angle of the suspension
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399674>

Question 1924

Which of these is the recommended gauge wire for automotive speakers?

A) 10 ga. B) 20 ga. C) 00 ga. D) 0 ga.

Answer: <https://biology-forums.com/index.php?topic=398420>

Question 1925

A P0422 (catalytic converter efficiency failure) is set. What is a possible cause?

- A) Fuel contamination B) Engine mechanical fault
C) Exhaust leak D) Any of these

Answer: <https://biology-forums.com/index.php?topic=399346>

Question 1926

Axle windup is most often a problem with _____.

- A) Front-wheel drive vehicles B) Vehicles with a live rear axle
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400003>

Question 1927

The diameter of a cylinder is called the _____.

- A) Stroke B) Diameter C) Bore D) Radius

Answer: <https://biology-forums.com/index.php?topic=397842>

Question 1928

Crowfoot sockets are available in which design?

- A) Open end B) Flare nut C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397600>

Question 1929

What is the correct tool for measuring input shaft and output shaft endplay?

- A) Micrometer B) Dial caliper C) Dial indicator D) None of these

Answer: <https://biology-forums.com/index.php?topic=400390>

Question 1930

Which term is used to describe the number of degrees of crankshaft rotation for which the valve is lifted off the seat?

- A) Overlap B) Underlap C) Duration D) Lift

Answer: <https://biology-forums.com/index.php?topic=398126>

Question 1931

Hydrodynamic lubrication, created by the wedging action of oil between the crankshaft journal and bearing, can be as high as _____ PSI.

- A) 120 B) 1000 C) 500 D) 60

Answer: <https://biology-forums.com/index.php?topic=397951>

Question 1932

Which type of fastener is used with a cotter pin?

- A) Roll pin B) Taper pin C) Clevis pin D) None of these

Answer: <https://biology-forums.com/index.php?topic=397576>

Question 1933

An SOHC V-8 engine has how many camshafts?

- A) One B) Three C) Two D) Four

Answer: <https://biology-forums.com/index.php?topic=397829>

Question 1934

The ABS computer uses what signal characteristic from a wheel speed sensor?

- A) Voltage B) Resistance C) Electromagnetic D) Frequency

Answer: <https://biology-forums.com/index.php?topic=399816>

Question 1935

Component location can be found in _____.

- A) Factory service manuals B) Owners manuals

C) Component location manuals D) Both A and C

Answer: <https://biology-forums.com/index.php?topic=397758>

Question 1936

When removing heavy objects that may change the center of gravity of a vehicle _____.

- A) Position hoist arms as close to vehicle corners as possible
- B) Use tall safety stands
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397653>

Question 1937

Technician A says that the crankshaft determines the stroke of an engine. Technician B says that the length of the connecting rod determines the stroke of an engine. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397838>

Question 1938

Two-speed wiper motors generally use _____ to achieve the two speeds.

- A) Speed control brushes
- B) Gear reduction
- C) Reduction gear transmission
- D) Cams

Answer: <https://biology-forums.com/index.php?topic=398721>

Question 1939

A 2008 vehicle with TPMS has a flashing TPMS warning lamp. This means _____.

- A) The vehicle has a flat tire
- B) The TPMS has detected a fault with a sensor
- C) Either A or B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399886>

Question 1940

The detent mechanism inside a transmission is used to _____.

- A) Locate the synchronizer sleeves in the correct position
- B) Prevent more than one shift fork from moving at one time
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400225>

Question 1941

A P0117 DTC is being discussed. Technician A says that the ECT sensor could be internally shorted to ground. Technician B says that the signal wire could be open. Who is right?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399057>

Question 1942

A vehicle comes into the shop and the technician retrieves the diagnostic code P0401 "EGR flow insufficient". Which of these could be the cause?

- A) EGR valve stuck open
- B) Electrical wiring shorted
- C) Clogged EGR ports or passages
- D) All of these are correct.

Answer: <https://biology-forums.com/index.php?topic=399310>

Question 1943

Turning the oil pump before starting the engine should be done for all of these reasons, EXCEPT _____.

- A) Lubricate engine bearings
- B) To get the distributor in the right position
- C) Lubricate valve train components
- D) Supply oil to the camshaft

Answer: <https://biology-forums.com/index.php?topic=398243>

Question 1944

Technician A says that the automatic transmission/transaxle fluid (ATF) cooler is designed to cool the automatic transmission fluid. Technician B says that the cooler also warms the ATF when the fluid is cold. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400343>

Question 1945

Two technicians are discussing FWD driveshaft service. Technician A says that removal of the driveshaft usually requires partial disassembly of the front suspension. Technician B says that the first step in driveshaft removal is to loosen the front hub nut. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400272>

Question 1946

The standard ABS control strategy uses a three step cycle. These are _____.

- A) Slipping, holding, and increasing
B) Pressure hold, pressure decrease, and pressure increase
C) Pressure maintain, pressure hold, and pressure accumulate
D) ABS on, ABS off, and ABS hunting

Answer: <https://biology-forums.com/index.php?topic=399808>

Question 1947

Clutch pack clearance may be adjusted by all of the following EXCEPT _____.

- A) Snap ring B) O-ring C) Pressure plate D) Washer

Answer: <https://biology-forums.com/index.php?topic=400391>

Question 1948

Technician A says that all vehicles equipped with ABS will experience a pulsating brake pedal even during normal braking. Technician B says that ABS will result in quicker stops on all road surfaces. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399493>

Question 1949

Customer pay (CP) means _____.

- A) Customer pays for the repair or service B) The technician often gets paid more for the job
C) Warranty does not pay for the repair or service D) All of these

Answer: <https://biology-forums.com/index.php?topic=397436>

Question 1950

Which of these are wise things to do when completing the employment process?

- A) Follow up the interview with a letter thanking the manager for his/her time
B) Introduce yourself and speak with confidence
C) Emphasize your strengths and skills in the interview
D) All of these

Answer: <https://biology-forums.com/index.php?topic=397419>

Question 1951

Technician A says that a damaged bead can be repaired. Technician B says that tires with damaged beads must be replaced. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399868>

Question 1952

Sponge lead is used for which battery components?

- A) Negative plates B) Positive plates C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398565>

Question 1953

Technician A says that valve springs should be kept with the valve at the time of disassembly and tested for squareness and proper spring force. Technician B says that the exhaust valve is about 50 percent of the size of the intake valve. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398108>

Question 1954

Engine vacuum on a normal stock rebuilt engine should be _____
A) 17 to 21 in. Hg. B) 19 to 23 in. Hg. C) 10 to 15 in. Hg. D) 12 to 16 in. Hg.

Answer: <https://biology-forums.com/index.php?topic=398259>

Question 1955

During an airbag deployment, the vehicle event data recorder (EDR) will record all of these EXCEPT _____.

- A) Passenger voice sounds
- B) G-forces
- C) Vehicle speed
- D) Brake on/off

Answer: <https://biology-forums.com/index.php?topic=398769>

Question 1956

A valve should be discarded if the margin is less than _____ inches after refacing.

- A) 0.03
- B) 0.06
- C) 0.001
- D) 0.006

Answer: <https://biology-forums.com/index.php?topic=398101>

Question 1957

With the ignition off and the key out of the ignition, what should happen if a technician uses a screwdriver to gently push on the throttle plate in an attempt to open the valve?

- A) The throttle should move, and then spring back to the home position when released.
- B) The throttle should move closed, but not open further than the default position.
- C) Nothing. The throttle should be kept from moving by the motor, which is not energized with the key off.
- D) The throttle should move and stay where it is moved and not go back unless moved back.

Answer: <https://biology-forums.com/index.php?topic=399225>

Question 1958

The neutral safety switch is located _____.

- A) In the battery cable between the battery and the starter solenoid
- B) Between the starter solenoid and the starter motor
- C) Inside the ignition switch itself
- D) Between the ignition switch and the starter solenoid

Answer: <https://biology-forums.com/index.php?topic=398594>

Question 1959

The material used to absorb moisture inside an AC system is called _____.

- A) Drier
- B) Desiccant
- C) PAG
- D) Ester

Answer: <https://biology-forums.com/index.php?topic=398800>

Question 1960

Pushrod adjustment is checked with a _____.

- A) Variable gauge
- B) Feeler gauge
- C) Either A or B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399785>

Question 1961

To save time, technician A uses an impact socket on an impact wrench to tighten lug nuts. Technician B tightens lug nuts in a criss-cross pattern with a torque wrench. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399905>

Question 1962

Which pitch horn is used for a single horn application?

- A) High pitched
- B) Low pitched

Answer: <https://biology-forums.com/index.php?topic=398713>

Question 1963

The upper portion of a two part intake manifold is often called the _____.

- A) Plenum
- B) Vacuum chamber
- C) Housing
- D) Lower part

Answer: <https://biology-forums.com/index.php?topic=397969>

Question 1964

Which is true of biodiesel fuel?

- A) Reduces particulate matter in emissions B) Reduces hydrocarbon emissions
C) Reduces carbon monoxide emissions D) All of these

Answer: <https://biology-forums.com/index.php?topic=398957>

Question 1965

Which of these is true regarding port fuel injection systems?

- A) Fuel distribution to all cylinders is equal.
B) The intake manifold may be shaped and sized to best fit the engine performance requirements.
C) Fuel is injected almost directly into the combustion chamber.
D) All of these are correct.

Answer: <https://biology-forums.com/index.php?topic=399185>

Question 1966

In an open circuit _____.

- A) No voltage is present B) No current will flow
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398316>

Question 1967

Technician A lifts a heavy load using leverage away from his body. Technician B lifts a load keeping it close to his body. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397503>

Question 1968

What enables an air bag to deploy in an accident, even if the battery becomes disconnected during the crash?

- A) "Sudden stop" signal received from vehicle speed sensor (VSS)
B) Velocity versus solid object sensor
C) Mechanical push-arm igniter
D) Backup power supply

Answer: <https://biology-forums.com/index.php?topic=398762>

Question 1969

A fully charged 12 volt battery should indicate _____.

- A) 12.6 volts or higher B) A specific gravity of 1.265 or higher
C) 12 volts D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=398550>

Question 1970

When checking the ECT sensor with a scan tool, about what temperature should be displayed if the connector is removed from the sensor with the key on, engine off?

- A) -40°F (-40°C) B) 120°F (50°C) C) 230°F (110°C) D) 284°F (140°C)

Answer: <https://biology-forums.com/index.php?topic=399046>

Question 1971

Which part MUST be used when refitting a vehicle from R-12 to R-134a refrigerant?

- A) A new condenser B) A new service fitting and a retrofit label
C) A high pressure cutoff switch D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=398874>

Question 1972

Technician A says that most manufacturers recommend using anti-seize compound on lug studs when installing wheels. Technician B says that air impact wrenches are the best tool to tighten lug nuts. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399916>

Question 1973

In heating mode, where is the airflow directed?

- A) Dash vents B) Floor C) Windshield D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=398823>

Question 1974

Technician A says that two sensors must be triggered at the same time for an airbag deployment to occur. Technician B says that frontal airbags only operate within 60 degrees from center and do not deploy in the event of a side or rear collision. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398759>

Question 1975

Technician A says that a fuel tank is either constructed of steel or polyethylene plastic. Technician B says that fuel tank filler tubes contain an anti-siphoning device. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399158>

Question 1976

A coating often used to keep an engine from rusting during assembly is called _____.

- A) Penetrating oil B) Assembly lube C) Fogging oil D) Engine oil

Answer: <https://biology-forums.com/index.php?topic=398220>

Question 1977

Technician A says that a person with crossed arms is probably not listening to what you're saying. Technician B says that crossed arms is a sign the customer is interested in what the technician is saying. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397442>

Question 1978

It is relatively easy to move an electron from the valence ring of a conductor.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=398284>

Question 1979

Which of these is true about an alternator with an overrunning pulley?

- A) Replacement pulley must be the overrunning type B) It can use a conventional replacement pulley
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398650>

Question 1980

Driver and/or passenger front airbags will only deploy if a collision occurs how many degrees from straight ahead?

- A) 30 B) 20 C) 90 D) 45

Answer: <https://biology-forums.com/index.php?topic=398756>

Question 1981

Technician A says that compression of a vehicle spring is called jounce. Technician B says that extending the vehicle spring is called rebound. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399942>

Question 1982

Technician A says that all friction and steel plates in a clutch pack should be replaced during an overhaul. Technician B says that the automatic transmission fluid cooler should always be flushed when a unit is rebuilt or replaced. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400379>

Question 1983

Which type of refrigerant hose is used with an R-134a system?

- A) Rigid hose B) Copper type hose C) Flexible, porous hose D) Barrier hose

Answer: <https://biology-forums.com/index.php?topic=398805>

Question 1984

Which of the following cannot be measured using a feeler gauge?

- A) Connecting rod side clearance B) Piston ring gap
C) Piston ring side clearance D) Valve guide clearance

Answer: <https://biology-forums.com/index.php?topic=397670>

Question 1985

An acceptable charging circuit voltage on a 12 volt system is _____.

- A) 12.6 to 15.6 volts B) 14.9 to 16.1 volts C) 12 to 14 volts D) 13.5 to 15 volts

Answer: <https://biology-forums.com/index.php?topic=398656>

Question 1986

Technician A says that with a properly operating air-conditioning system, the inlet to the compressor should be cold and the outlet from the compressor hot. Technician B says that the condenser should be hot and the evaporator cold. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398850>

Question 1987

Technician A says that brake fade due to lining or water is not possible on disc brakes. Technician B says that lining and water fade can occur on disc brakes, but is not as likely compared to drum brakes. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399690>

Question 1988

What personal information should NOT be included on the resume?

- A) Work experience B) Cell or phone number
C) Age D) Address

Answer: <https://biology-forums.com/index.php?topic=397399>

Question 1989

Technician A says to never look away from a vehicle being hoisted. Technician B says that the vehicle must be raised off the mechanical locks before lowering. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397655>

Question 1990

Which type of port fuel injection fires each injector separately, following the engine firing order?

- A) Sequential fired B) Throttle body injection
C) Simultaneous double fired D) Ganged double fire

Answer: <https://biology-forums.com/index.php?topic=399188>

Question 1991

What type of fastener is commonly used to retain interior door panels?

- A) External clips B) Internal clips C) Christmas tree clips D) E clips

Answer: <https://biology-forums.com/index.php?topic=397560>

Question 1992

One cylinder of an automotive four-stroke cycle engine completes a cycle every _____.

- A) 720 degree B) 360 degree C) 180 degree D) 90 degree

Answer: <https://biology-forums.com/index.php?topic=397835>

Question 1993

Which of these tools is MOST likely to be used to determine the starter circuit voltage drop test?

- A) Ohmmeter B) Ammeter C) Voltmeter D) Meg ohmmeter

Answer: <https://biology-forums.com/index.php?topic=398626>

Question 1994

Crankshafts should be stored by which of these methods?

- A) Standing or lying on its side B) Any position
C) Standing or hanging D) Leaning at a slight angle

Answer: <https://biology-forums.com/index.php?topic=398186>

Question 1995

Hybrid electric vehicles usually require special engine oil of what viscosity?

- A) SAE 0W-20 B) SAE 5W-40 C) SAE 10W-30 D) SAE 5W-30

Answer: <https://biology-forums.com/index.php?topic=398030>

Question 1996

Technician A says that the cranking circuit should be tested for proper amperage draw. Technician B says that an open in the control circuit will not prevent starter motor operation. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398624>

Question 1997

Magnetic wheel speed sensors are being discussed. Technician A says that the wheel speed sensors are magnetic. Technician B says that the toothed sensor ring is magnetic. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399798>

Question 1998

The overrunning clutch (starter drive) accomplishes which of the following?

- A) Lets the starter motor rotate in either direction
B) Separates the starter motor from the starter solenoid
C) Brings the starter motor into contact with the ignition circuit
D) Protects the starter motor from spinning too rapidly

Answer: <https://biology-forums.com/index.php?topic=398610>

Question 1999

Technician A says that a loaded caliper includes an overhauled caliper assembly but no brake pads or hardware.. Technician B says that a loaded caliper includes the pads and all needed hardware. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399715>

Question 2000

Which sensor produces a digital signal?

- A) Magnetic sensor B) Hall-Effect sensor C) Pickup coil D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=399000>

Question 2001

Hydraulic lifters or hydraulic lash adjusters (HLA) may not bleed down properly and could cause an engine miss if _____.

- A) The engine oil is 1 quart low B) The wrong API-rated engine oil is used
C) The wrong SAE-rated engine oil is used D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=398123>

Question 2002

Technician A says that a defective ground connection at the master control switch (driver's side) could cause the failure of all power windows. Technician B says that if one control wire is disconnected, all windows will fail to operate. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398730>

Question 2003

A vehicle is equipped with longitudinal torsion bars attached to the front lower control arms. Technician A says that this vehicle has loaded lower ball

joints. Technician B says that the ball joints on this vehicle should be unloaded to test for radial and axial play. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399973>

Question 2004

A catalytic converter has to be at least how hot before it begins to work??

- A) 500 degrees F B) 1,500 degrees F C) 2,000 degrees F D) 1,000 degrees F

Answer: <https://biology-forums.com/index.php?topic=399340>

Question 2005

Technician A says that glycol-based brake fluid causes the seals to swell slightly. Technician B says the DOT 5 (silicone-based) brake fluid causes rubber seals to swell slightly. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399574>

Question 2006

The rear wheels lock up during hard braking. Technician A says that a defective metering valve could be the cause. Technician B says that a defective proportioning valve could be the cause. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399551>

Question 2007

Technician A says to check coolant level in the radiator when it is hot. Technician B says to check coolant level in the radiator when it is cool. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399394>

Question 2008

Wheel bearings are being packed with grease. Technician A says to use grease that is labeled "GC." Technician B says to use grease with an NLGI number of 2. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399625>

Question 2009

A tire with lower than specified inflation pressure could lead to what condition?

- A) Reduced tire life B) Reduced fuel economy
C) Increased chances of roadside faults or accidents D) All of the above

Answer: <https://biology-forums.com/index.php?topic=399875>

Question 2010

Crankshaft journals are checked for which of these?

- A) Out of Round B) Taper C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398189>

Question 2011

A typical V-8 engine crankshaft has _____ main bearings.

- A) Four B) Seven C) Five D) Three

Answer: <https://biology-forums.com/index.php?topic=398177>

Question 2012

Technician A says that the catalytic converter is warranted for 8 years or 80,000 miles, whichever comes first. Technician B says that after replacing the catalytic converter, the old converter must be kept for possible inspection for 60 days. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399347>

Question 2013

Technician A says electronic transmissions control shifts by directing the shift solenoid output pressure to the bands and clutches. Technician B says electronic transmissions control shifts by directing the shift solenoid output pressure to the shift valves. Who is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400359>

Question 2014

Which type torque wrench indicates the actual torque applied?

A) Click B) Beam C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397602>

Question 2015

Slip joint pliers can be used in how many positions?

A) Four B) Two C) One D) Six

Answer: <https://biology-forums.com/index.php?topic=397609>

Question 2016

Technician A says that many power windows and power door locks use a reversible, permanent-magnet motor with a built-in circuit breaker.

Technician B says that the control switches and relays direct the current through the motor(s). Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398737>

Question 2017

Before the timing chain can be inspected and removed, the _____ must be removed.

A) Vibration damper B) Rocker cover (valve cover)
C) Intake manifold (V-type engines only) D) Cylinder head

Answer: <https://biology-forums.com/index.php?topic=398047>

Question 2018

A battery date code sticker indicates D6. What does this mean?

A) It was built the second day of the week (Tuesday)
B) The date it was shipped from the factory was December, 2006
C) The date it was shipped from the factory was April, 2006
D) The battery expires in December, 2002

Answer: <https://biology-forums.com/index.php?topic=398571>

Question 2019

What color are the airbag electrical connectors and conduit?

A) Red B) Yellow C) Blue D) Orange

Answer: <https://biology-forums.com/index.php?topic=398755>

Question 2020

A transmission that will not upshift could be caused by _____.

A) Loose driveshaft bolts B) A bad motor mount
C) A fault in the TCM D) A fault in the MAF sensor

Answer: <https://biology-forums.com/index.php?topic=400376>

Question 2021

Two technicians are discussing which lubricants are used in a limited-slip differential. Technician A says to use SAE 80W-140. Technician B says that most vehicle manufacturers usually specify SAE 80W-90 be used with or without special limited-slip additives. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400288>

Question 2022

If the steering column of an electric power steering system vehicle is replaced, what may have to be re-learned by the electric power steering control module?

A) Torque sensor zero B) Turn signal cancel trigger
C) Vehicle toe-in D) Lock-to-lock distance

Answer: <https://biology-forums.com/index.php?topic=400115>

Question 2023

Which of the following are symptoms of a clogged EGR passage?

- A) Detonation during acceleration or cruise B) Reduced NOx emissions
C) Poor performance and lack of power. D) Rough idle and stalling

Answer: <https://biology-forums.com/index.php?topic=399314>

Question 2024

Technician A says that FM requires an antenna whereas AM may be heard from a radio without an antenna. Technician B says that speakers reproduce the original sound and their impedance should be matched. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398781>

Question 2025

A fuel filter has been accidentally installed backwards. What is the most likely result?

- A) Nothing will be noticed B) Lower power at higher engine speeds and loads
C) Fuel system pulsation noises may be heard D) Reduced fuel economy

Answer: <https://biology-forums.com/index.php?topic=399156>

Question 2026

Most MAP sensors produce what type of output signal?

- A) AC voltage (ACV) B) Frequency (Hz)
C) Analog DC voltage (DCV) D) DC milliamperes (DCA)

Answer: <https://biology-forums.com/index.php?topic=399092>

Question 2027

Technician A says that the primary and secondary ignition systems are never connected. Technician B says that the primary and secondary windings are connected in some ignition coils. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398973>

Question 2028

Technician A uses three prong electrical cords when possible. Technician B uses double insulated electrical tools. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397510>

Question 2029

What is the most common cause of memory steer?

- A) Binding suspension components B) Binding steering components
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400172>

Question 2030

What gears produce the final drive ratio?

- A) Countershaft gears B) Ring and pinion gear set
C) Spider gears D) None of the above is correct.

Answer: <https://biology-forums.com/index.php?topic=400292>

Question 2031

A rear-wheel drive vehicle shudders or vibrates when first accelerating from a stop. The vibration is less noticeable at higher speeds. The most likely cause is _____.

- A) Excessive U-joint working angles B) Drive shaft imbalance
C) Brinelling of the U-joint D) Unequal U-joint working angles

Answer: <https://biology-forums.com/index.php?topic=400227>

Question 2032

Which type hammer is designed for automotive service use?

- A) Ball peen B) Claw C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397608>

Question 2033

To check a crankshaft journal for out-of-round, the journal should be measured in at least how many locations?

- A) 8 B) 4 C) 2 D) 6

Answer: <https://biology-forums.com/index.php?topic=397667>

Question 2034

A fuel injection system that does not use a sensor to measure the amount (or mass) of air entering the engine is usually called a(an) _____ type of system

- A) Mass air flow B) Speed density C) Air vane controlled D) Hot wire

Answer: <https://biology-forums.com/index.php?topic=399099>

Question 2035

The steel wire wheel on a bench grinder can be used to clean _____.

- A) Threads of bolts B) Aluminum surfaces C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397630>

Question 2036

A defective thermostat can cause the powertrain control module (PCM) to set what diagnostic trouble code (DTC)?

- A) P0128 B) P0172 C) P0300 D) P0171

Answer: <https://biology-forums.com/index.php?topic=398026>

Question 2037

The stone wheel mounted to a bench grinder can be used for _____.

- A) Cleaning gaskets from surfaces B) Sharpening chisels and blades
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397639>

Question 2038

A hybrid vehicle 12 volt battery is located under the hood. This will usually be a _____ type battery.

- A) NiCad B) AGM design C) Flooded D) Gel-cell

Answer: <https://biology-forums.com/index.php?topic=399459>

Question 2039

Excessive negative camber will cause which of the following?

- A) Excessive wheel bearing loading B) Inner tire wear
C) Improper handling D) All of these are correct

Answer: <https://biology-forums.com/index.php?topic=400136>

Question 2040

The proper operation of a vacuum brake booster requires that the engine be capable of supplying at least _____.

- A) 19 in. Hg vacuum B) 15 in. Hg vacuum C) 21 in. Hg vacuum D) 17 in. Hg vacuum

Answer: <https://biology-forums.com/index.php?topic=399771>

Question 2041

Technician A says that torque prevailing nuts can be reused unless damaged. Technician B says that a new cotter key should always be used. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400070>

Question 2042

Technician A says that dragging brakes are often discovered when mounting the alignment sensors on the wheels. Technician B says that dragging brakes on one side of the vehicle will cause a pull. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400171>

Question 2043

Technician A says that disc brake pads should be replaced when worn to minimal allowable thickness. Technician B says the pads should be removed

and inspected whenever there is a brake performance complaint. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399710>

Question 2044

The engine speed increases when the driver depresses the accelerator pedal and releases the clutch pedal, but the vehicle does not move. Technician A says the clutch may be defective. Technician B says the dual-mass flywheel may be defective. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400178>

Question 2045

Technician A says that a MAP sensor can be tested by visual inspection, using a digital meter, or a scan tool. Technician B says a light engine load results in low intake manifold vacuum and a high MAP sensor signal voltage. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399091>

Question 2046

An engine with a displacement of 302 cubic inches converts to _____ liters (rounded off).

- A) 4.9 B) 3.7 C) 5.7 D) 49

Answer: <https://biology-forums.com/index.php?topic=397852>

Question 2047

A catalytic converter can be harmed by _____.

- A) excessive engine oil B) sulfur from poor-quality fuel
C) antifreeze D) Any of the above

Answer: <https://biology-forums.com/index.php?topic=399342>

Question 2048

Which is NOT a bearing problem?

- A) Stripping B) Smearing C) Spalling D) Fretting

Answer: <https://biology-forums.com/index.php?topic=399629>

Question 2049

Current for the rotor flows through the brushes to the _____.

- A) Stator B) Regulator C) Rotor D) Slip rings

Answer: <https://biology-forums.com/index.php?topic=398648>

Question 2050

Technician A says that the parking brake is controlled by a lever. Technician B says that a pedal may be used to apply the parking brake. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399742>

Question 2051

As brake fluid ages, what happens?

- A) The color changes to purple B) The boiling temperature decreases
C) The boiling temperature increases D) The viscosity (thickness) decreases

Answer: <https://biology-forums.com/index.php?topic=399573>

Question 2052

Which component cannot be removed before removing the transmission/transaxle from the vehicle?

- A) Reverse light connector B) Vehicle speed sensor
C) Front bearing retainer (quill) D) Drive axle shafts

Answer: <https://biology-forums.com/index.php?topic=400210>

Question 2053

A vehicle is hoisted during routine service and the service technician discovers that the left front wheel does not turn when force is applied. Technician A says that the hoist (lift) pads could be against the left front tire. Technician B says that there could be a brake fluid restriction between the master

cylinder and the brakes. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399716>

Question 2054

What percent of opacity means the exhaust has no visible smoke and does not block light from a beam projected through the exhaust smoke?

- A) 25 % B) 100 % C) 0 % D) 50 %

Answer: <https://biology-forums.com/index.php?topic=397873>

Question 2055

Two technicians are discussing the operation of a dual master cylinder. Technician A says that the push rod is connected to the primary piston. Technician B says that the secondary piston is pushed forward by the fluid trapped ahead of the primary piston. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399535>

Question 2056

A beginning service technician earns \$400 per week. How much should the technician spend on a vehicle payment?

- A) \$1000 per month B) \$800 per month C) \$500 per month D) \$400 per month

Answer: <https://biology-forums.com/index.php?topic=397406>

Question 2057

What prevents the fuel pump inside the fuel tank from catching the gasoline on fire?

- A) Gasoline is hard to ignite in a closed space B) No air is around the motor brushes
C) Electricity is not used to power the pump D) All of the above

Answer: <https://biology-forums.com/index.php?topic=399150>

Question 2058

The SAE term for the vehicle computer is _____.

- A) ECU B) PCM C) ECM D) Controller

Answer: <https://biology-forums.com/index.php?topic=399021>

Question 2059

A typical oil pump can pump how many gallons per minute?

- A) 6 to 10 gallons B) 10 to 60 gallons C) 50 to 100 gallons D) 3 to 6 gallons

Answer: <https://biology-forums.com/index.php?topic=397949>

Question 2060

Slide hammers or a special tool are used to remove what component?

- A) Rear seal B) A filter C) Pump D) Extension housing

Answer: <https://biology-forums.com/index.php?topic=400380>

Question 2061

Technician A says that riveted disc brake pads are often quieter than bonded disc brake pads. Technician B says that integrally molded disc brake pads are molded into holes in the steel backing of the pads. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399689>

Question 2062

Two technicians are diagnosing a poorly running engine with no stored DTCs. When the MAF sensor is unplugged, the engine runs better. Technician A says that this means the MAF is supplying incorrect air flow information to the PCM. Technician B says that this indicates the PCM is defective. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399104>

Question 2063

The ASE written tests are given every _____.

- A) May and November B) January and June
C) February and September D) March and October

Answer: <https://biology-forums.com/index.php?topic=397466>

Question 2064

Technician A says the torque multiplication phase can occur when the stator one-way clutch begins to freewheel. Technician B says the torque multiplication phase can occur when the stator one-way clutch locks up. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400336>

Question 2065

Which tool is necessary to measure flatness of engine components?

- A) Feeler gauge B) Straight edge C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397686>

Question 2066

Which of these terms refers to the ability to hear and understand what the customer is saying in a way that demonstrates your understanding to the customer?

- A) Passive listening B) Active listening C) Active hearing D) None of these

Answer: <https://biology-forums.com/index.php?topic=397438>

Question 2067

Beginning with the 2000 model year, enhanced EVAP systems were introduced that can detect a leak as small as _____.

- A) 0.040 in. B) 0.002 in. C) 0.020 in. D) None of these

Answer: <https://biology-forums.com/index.php?topic=399298>

Question 2068

Even the most efficient torque converter has a slippage rate of _____.

- A) 10% to 15% B) 3% to 6% C) 0% to 2% D) 8% to 12%

Answer: <https://biology-forums.com/index.php?topic=400332>

Question 2069

Technician A says that a transfer case may use GL-4 gear lube such as SAE 80W-90. Technician B says that a transfer case may use automatic transmission fluid (ATF) such as Dexron III. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400302>

Question 2070

All of these can cause radio interference, EXCEPT _____.

- A) Fault in the ignition system B) Open in the radio power circuit
C) Loose ground wire D) Defective alternator

Answer: <https://biology-forums.com/index.php?topic=398783>

Question 2071

Technician A says that the parking brake cable adjustment should be performed before adjusting the rear brakes. Technician B says that the parking brake cable should allow for about 15 "clicks" before the parking brake holds. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399738>

Question 2072

Which of these statements about series hybrid electric vehicles is (are) true?

- A) The internal combustion engine turns a generator to charge the battery
B) The engine never powers the vehicle directly
C) Both A and B
D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399429>

Question 2073

Technician A says to charge the system with refrigerant until the condenser temperature is equal to the ambient temperature plus 100 deg. F. Technician B says to charge the system with a manufacturer specified weight of refrigerant. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398877>

Question 2074

Which description best fits the role of a service advisor?

- A) A money manager B) A beginning technician
C) A skilled technician D) A customer service representative

Answer: <https://biology-forums.com/index.php?topic=397373>

Question 2075

While bleeding brakes, how long should you wait between strokes?

- A) 5 seconds B) 30 seconds C) 10 seconds D) 15 seconds

Answer: <https://biology-forums.com/index.php?topic=399604>

Question 2076

Drum brakes use replaceable friction material called _____.

- A) Shoes B) Web C) Core D) Pads

Answer: <https://biology-forums.com/index.php?topic=399490>

Question 2077

Which law states that the deflection of a spring is directly proportional to the applied force?

- A) Pascal's law B) Newton's law C) Hooke's law D) Halderman's law

Answer: <https://biology-forums.com/index.php?topic=399943>

Question 2078

The brake bleeding procedure usually specified for a rear-wheel drive vehicle with a dual split master cylinder is _____.

- A) LF, RF, LR, RR B) RF, LR, LF, RR C) LR, RR, LF, RF D) RR, LR, RF, LF

Answer: <https://biology-forums.com/index.php?topic=399592>

Question 2079

Electronic indicators alert the driver when _____.

- A) Traction control is turned off B) A fault is detected in the airbag (SRS) system
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398705>

Question 2080

When installing a tire pressure monitoring system sensor on a wheel, the sensor should be mounted _____.

- A) With the flat part of the sensor parallel to the center section of the rim
B) With the flat part of the sensor facing the center section of the rim
C) Both A and B
D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399913>

Question 2081

Two technicians are discussing master cylinders. Technician A says that it is normal to see fluid movement in the reservoir when the brake pedal is depressed. Technician B says a defective master cylinder can cause the brake pedal to slowly sink to the floor when depressed. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399523>

Question 2082

Coil polarity is determined by the _____.

- A) Direction of the coil windings B) Saturation direction
C) Turn ratio D) Direction of lamination

Answer: <https://biology-forums.com/index.php?topic=398962>

Question 2083

A vehicle battery is consistently low on voltage. Technician A says to disconnect the battery with the engine running to test for proper alternator output.

Technician B says that a loose alternator belt may cause this problem. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398666>

Question 2084

Technician A says that torque steer is normal for many FWD vehicles. Technician B says that torque steer is normal for many RWD vehicles. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400161>

Question 2085

Technician A says that it is a good idea to perform a test drive before attempting repairs. Technician B says that its a good idea to let the customer accompany the technician on the test drive. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399390>

Question 2086

The purpose of the charcoal filter in the vacuum hose between the engine and the vacuum brake booster is to _____.

- A) Direct the vacuum
B) Act as a one-way check valve to help keep a vacuum reserve in the booster
C) Trap gasoline vapors to keep them from entering the booster
D) Filter the air entering the engine

Answer: <https://biology-forums.com/index.php?topic=399772>

Question 2087

What unit contains a hold-in winding and a pull-in winding?

- A) The starter solenoid B) The armature C) The ignition switch D) The field coil

Answer: <https://biology-forums.com/index.php?topic=398600>

Question 2088

The actuator motor is controlled by the PCM through what type of circuit?

- A) Series-Parallel B) H-bridge C) Series D) Parallel

Answer: <https://biology-forums.com/index.php?topic=399220>

Question 2089

Capacitance is governed by all of these EXCEPT _____.

- A) Surface area of the condenser plates B) Dielectric material used
C) Space between condenser plates D) Conductor diameter

Answer: <https://biology-forums.com/index.php?topic=398485>

Question 2090

Technician A says that the access hole for the starwheel adjuster may be in the brake drum web. Technician B says that the access hole for the starwheel may be found in the backing plate. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399675>

Question 2091

What is used to test the specific gravity of diesel fuel?

- A) API hydrometer B) Gas chromatograph C) Spectrometer D) None of these

Answer: <https://biology-forums.com/index.php?topic=398950>

Question 2092

Technician A says that fuel pump modules are spring-loaded so that they can be compressed to fit into the opening. Technician B says that they are spring-loaded to allow for expansion and contraction of plastic fuel tanks. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399152>

Question 2093

Low-speed networks operate at less than _____ bits per second.

- A) 8,000 B) 5,000 C) 2,000 D) 10,000

Answer: <https://biology-forums.com/index.php?topic=398540>

Question 2094

A replacement plastic intake manifold may have a different design or appearance from the original factory-installed part.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=398027>

Question 2095

Gasoline should be stored in approved containers that include what color(s)?

- A) Red container B) Yellow container
C) Yellow with red lettering D) Red with yellow lettering

Answer: <https://biology-forums.com/index.php?topic=397526>

Question 2096

The instant the ignition switch is turned to the start position, _____.

- A) The hold in winding is energized
B) The pull in winding is energized
C) The starter motor starts to rotate before energizing the starter pinion gear
D) Both the pull in winding and the hold in winding are energized

Answer: <https://biology-forums.com/index.php?topic=398601>

Question 2097

The following statements are all correct EXCEPT _____.

- A) Torque is often expressed in pound-feet. B) Torque is the measurement of rotational force.
C) Torque always results in movement. D) All of the above answers are correct.

Answer: <https://biology-forums.com/index.php?topic=397844>

Question 2098

It takes 50 pounds of force to move a 100 pound block of wood across the floor. The coefficient of friction is _____.

- A) 0.5 B) 2.0 C) 1.0 D) 1.5

Answer: <https://biology-forums.com/index.php?topic=399522>

Question 2099

What determines the amount of valve overlap?

- A) Total lift in degrees B) Timing gears or chain
C) Cam lobe accuracy D) Camshaft design

Answer: <https://biology-forums.com/index.php?topic=398130>

Question 2100

For measuring a journal for out-of-round, measurements should be taken every _____ degrees around the journal

- A) 260 B) 120 C) 180 D) 90

Answer: <https://biology-forums.com/index.php?topic=397678>

Question 2101

Technician A says that some cabin filters are accessible behind the glove compartment. Technician B says that some cabin filters are accessible from under the hood. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398829>

Question 2102

On a vehicle with cylinder deactivation, the valves are kept closed by deactivating the _____.

- A) Valve stem B) Valve lifter C) Cam lobe D) Valve spring

Answer: <https://biology-forums.com/index.php?topic=398134>

Question 2103

The specific gravity of diesel fuel should be measured whenever a driveability concern is present.

A) True B) False

Answer: <https://biology-forums.com/index.php?topic=398949>

Question 2104

About how fast does a motor-generator crank the internal combustion engine?

A) About 2000 RPM B) About 1000 RPM C) About 350-600 RPM D) About 150-300 RPM

Answer: <https://biology-forums.com/index.php?topic=399415>

Question 2105

How many steps does the book outline for a systematic diagnostic procedure?

A) Six B) Five C) Eight D) Four

Answer: <https://biology-forums.com/index.php?topic=399387>

Question 2106

Which switching device creates its own electrical voltage pulse?

A) Pickup coil B) Optical sensor C) Ignition coil D) Hall-effect switch

Answer: <https://biology-forums.com/index.php?topic=398981>

Question 2107

Technician A says that oil for the rod bearings comes from splash off the crankshaft. Technician B says that lubrication to the main bearings is fed through the main oil gallery in the block. Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398187>

Question 2108

The first self-propelled vehicle that used an OTTO cycle four stroke gasoline engine was produced in _____.

A) 1902 B) 1885 C) 1908 D) 1900

Answer: <https://biology-forums.com/index.php?topic=397338>

Question 2109

Kirchhoff's law states that the voltage around a closed circuit is equal to the sum of _____ across all the loads.

A) Voltage drops B) Resistances C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398343>

Question 2110

Caustic chemicals can be used to _____ the effect of acidic chemicals.

A) Decrease B) Increase C) Neutralize D) None of these

Answer: <https://biology-forums.com/index.php?topic=397723>

Question 2111

Which gas is generally considered to be the lean indicator? (The higher the level of this gas, the leaner the air-fuel mixture.)

A) O₂ B) HC C) CO D) CO₂

Answer: <https://biology-forums.com/index.php?topic=399265>

Question 2112

A hypereutectic piston _____.

A) Uses about 16% silicon B) Is a cast piston

C) Is a forged piston D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=398138>

Question 2113

One commonly used type of brake booster uses _____ assist.

A) Vacuum B) Electrical

C) Hydraulic D) None of these is correct

Answer: <https://biology-forums.com/index.php?topic=399502>

Question 2114

A visual inspection of the metering valve includes _____.

- A) Verifying that the valve stem moves when the brakes are applied
- B) Inspection for excessive leakage
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399567>

Question 2115

A CAT III certified DMM should be used whenever measuring high-voltage circuits or components. The CAT III rating relates to _____.

- A) High voltage B) High energy
- C) High electrical resistance D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=399434>

Question 2116

A customer complained that every time he turned on his vehicle's lights, the left side turn signal indicator light on the dash remained on. The most likely cause is _____.

- A) A poor ground to the parking light (or taillight) on the left side
- B) A poor ground to the parking light (or taillight) on the right side, causing current to flow to the left side lights
- C) A defective (open) parking light (or tail light) bulb on the left side
- D) Either A or C

Answer: <https://biology-forums.com/index.php?topic=398675>

Question 2117

Technician A says that impact sockets have thicker walls than conventional sockets. Technician B says that impact sockets have a black oxide finish. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397615>

Question 2118

Technician A says that if the engine was removed with the transmission attached, the transmission should be reinstalled on the engine before other accessories are added. Technician B says that he flywheel attaching bolt holes are always evenly spaced so that the flywheel will fit in any way. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398267>

Question 2119

The positive battery plate is _____.

- A) Lead dioxide B) Sometimes called lead peroxide
- C) Brown in color D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398552>

Question 2120

When discussing induced voltage caused by a magnetic field moving across a complete circuit, technician A says that the direction of current flow depends on the direction of movement of flux lines. Technician B says that the direction of current flow is called polarity. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398506>

Question 2121

Which of the following is NOT a subsystem in a modern automotive HVAC system?

- A) AC controls B) Refrigeration system
- C) Cooling system D) All of these are HVAC subsystems

Answer: <https://biology-forums.com/index.php?topic=398821>

Question 2122

Many ground straps are uninsulated and braided because _____.

- A) They are more flexible to allow movement of the engine without breaking the wire
- B) They are less expensive than conventional wire
- C) They help dampen radio-frequency interference (RFI)
- D) Both A and C are correct

Answer: <https://biology-forums.com/index.php?topic=398415>

Question 2123

Technician A says heater temperature may be controlled by regulating the amount of coolant flowing through the heater core. Technician B says heater temperature may be controlled by regulating the amount of air flowing through the heater core. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398853>

Question 2124

The rotation of the steering wheel causes which part to move the actual steering linkage in a conventional steering gear?

- A) Pitman arm B) Sector shaft C) Gear nut D) Worm gear

Answer: <https://biology-forums.com/index.php?topic=400038>

Question 2125

What precautions should be followed when using gaskets?

- A) A gasket should be checked to be sure that it is the correct gasket
B) Never reuse an old gasket
C) Read the instruction sheet
D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398208>

Question 2126

Which tool is used where there is NOT enough room to move a regular wrench?

- A) Impact wrench B) Air ratchet C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397623>

Question 2127

The throttle plate actuator motor is what type of electric motor?

- A) Stepper motor B) AC motor C) Brushless motor D) DC motor

Answer: <https://biology-forums.com/index.php?topic=399219>

Question 2128

Technician A says that OBD-II includes generic as well as vehicle manufacturer's specific DTCs and data displays. Technician B says that OBD-II have common DTCs. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399369>

Question 2129

Two technicians are discussing a diagnostic procedure where a tire and wheel is spun freely with the vehicle on a hoist. Technician A says that if the treads appear to move inward and outward the tire should be balanced. Technician B says that if the treads move inward and outward the tire is defective and should be replaced. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399912>

Question 2130

Technician A says full time 4WD also allows the driver to select 2WD or 4WD. Technician B says part-time 4WD includes a differential or viscous coupling that allows the front and rear axles to rotate at different speeds. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400311>

Question 2131

Typical secondary coil resistance specifications usually range from _____ ohms

- A) 100-450 B) 500-1500 C) 6,000-30,000 D) 1-3

Answer: <https://biology-forums.com/index.php?topic=398995>

Question 2132

Technician A says that the gear ratios of both differentials are the same in a four-wheel-drive vehicle. Technician B says that the rear differential has a slightly higher ratio (lower number) than the front differential. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400298>

Question 2133

With four wheel steering systems, what term describes the front and rear wheels turning the same direction?

- A) Opposite phase steering B) Negative phase mode
C) Same phase steering D) None of these

Answer: <https://biology-forums.com/index.php?topic=400086>

Question 2134

Used brake fluid should be _____.

- A) Poured down the drain
B) Disposed of properly according to state and local laws
C) Mixed with and recycled with used oil
D) Poured onto open ground to reduce dust

Answer: <https://biology-forums.com/index.php?topic=399579>

Question 2135

95% of 3250 is _____.

- A) 3421.0 B) 3087.5 C) 34.21 D) None of these

Answer: <https://biology-forums.com/index.php?topic=397751>

Question 2136

Technician A says that analog scopes use an LCD display. Technician B says that digital scopes may use a CRT display. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398398>

Question 2137

Friction discs should be _____ before being installed.

- A) Soaked in ATF B) Surface roughed up C) Sanded D) All of these

Answer: <https://biology-forums.com/index.php?topic=400384>

Question 2138

Air filters can remove particles and dirt as small as _____.

- A) 30 to 40 microns B) 10 to 25 microns C) 5 to 10 microns D) 40 to 50 microns

Answer: <https://biology-forums.com/index.php?topic=397966>

Question 2139

Zero emission vehicles (ZEV) _____.

- A) Are either electric or fuel cell powered B) Produce zero tailpipe emissions
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397799>

Question 2140

The switching valves on the AIR pump have failed several times. Technician A says that a defective exhaust check valve could be the cause.

Technician B says that a leaking exhaust system at the muffler could be the cause. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399327>

Question 2141

On a vehicle with a speed density fuel injection system, which of the following is likely to occur with a vacuum leak?

- A) Increased MAP sensor voltage B) Increased idle speed
C) Increased calculated load D) All of these are correct.

Answer: <https://biology-forums.com/index.php?topic=399243>

Question 2142

Technician A says that glow plugs are used to help start a diesel engine and are shut off as soon as the engine starts. Technician B says that the glow plugs are turned off as soon as a flame is detected in the combustion chamber. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397865>

Question 2143

Most brake experts and vehicle manufacturers recommend replacing brake lining when the lining thickness is _____.

- A) 0.060 in. (1.5 mm) B) 0.050 in. (1.3 mm) C) 0.030 in. (0.8 mm) D) 0.040 in. (1.0 mm)

Answer: <https://biology-forums.com/index.php?topic=399659>

Question 2144

What is the function of the desiccant bag inside an accumulator?

- A) It captures excess R 134a. B) It captures and stores moisture.
C) It stores and releases ice. D) All of the above.

Answer: <https://biology-forums.com/index.php?topic=398802>

Question 2145

_____ action uses the stopping power of one shoe to help increase the application force of the other shoe.

- A) Self-energizing B) Centrifugal C) Servo D) Centripetal

Answer: <https://biology-forums.com/index.php?topic=399652>

Question 2146

Technician A always inspects or replaces the drain plug gasket when performing an oil change. Technician B says that warm oil holds contaminants and flows faster than cold oil. Who is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397944>

Question 2147

A scan tool can be used to test a MAP sensor by monitoring the injector pulse width (in milliseconds) while _____ is being applied to the MAP sensor.

- A) Voltage B) Ground C) Air pressure D) Vacuum

Answer: <https://biology-forums.com/index.php?topic=399097>

Question 2148

Bumper to bumper warranty coverage is longer than powertrain warranty coverage.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=397383>

Question 2149

An ignition coil operates using the principle of _____.

- A) Electromagnetic induction B) Mutual induction
C) Self-induction D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398492>

Question 2150

The purpose of the oil filter bypass valve is to _____.

- A) Allow oil to bypass the filter if the filter becomes clogged
B) Keep the oil from draining out of the filter when the engine is shut off
C) Allows oil to bypass the oil filter when the oil is hot, to help cool the oil
D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=397934>

Question 2151

Technician A says that high-intensity discharge (HID) headlights are brighter and have a blue tint. Technician B says that one defective turn signal bulb can cause the turn signal on the affected side to stop blinking (flashing). Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398681>

Question 2152

Which terminal of the OBD-II data link connector is the signal ground for all vehicles?

- A) 4 B) 3 C) 5 D) 1

Answer: <https://biology-forums.com/index.php?topic=398536>

Question 2153

What component locks the steering wheel in place when the driver removes the key?

- A) Interplate B) Lock plate C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400057>

Question 2154

Piston ring gap should only be measured after _____.

- A) All cylinder work has been performed B) Installing the piston in the cylinder
C) Installing the rings on the piston D) Both A and C

Answer: <https://biology-forums.com/index.php?topic=398146>

Question 2155

The vehicle safety certification label includes all of these EXCEPT _____.

- A) VIN B) GVWR
C) GAWR D) Tire pressure recommendation

Answer: <https://biology-forums.com/index.php?topic=397787>

Question 2156

Which of these tools is used to test for a reading of infinity between the center antenna lead and the antenna?

- A) Test light B) Voltmeter C) Ohmmeter D) Powered test light

Answer: <https://biology-forums.com/index.php?topic=398789>

Question 2157

Two technicians are discussing an engine with an interference design. Technician A says if a valve remains open when its cylinder reaches TDC, the piston may strike the valve. Technician B says if a valve remains open when its cylinder reaches TDC, valvetrain damage can result. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398133>

Question 2158

Engine pre-oiling is recommended for which of these reasons?

- A) Helps the rebuilt engine develop power B) Fills the oil passages with oil prior to initial start-up
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398232>

Question 2159

Before installing or starting a new or rebuilt engine, all of the following items should have been checked, EXCEPT _____.

- A) Rear axle is topped off
B) Battery fully charged
C) Check that all of the vacuum lines are correctly installed and routed
D) Pre-lube engine and check for proper oil pressure

Answer: <https://biology-forums.com/index.php?topic=398265>

Question 2160

Which statement below is correct?

- A) Most ignition systems work by switching the positive side of the coil windings to power.
B) Most ignition systems work by switching the circuit to power the ignition coil's secondary windings.
C) Most ignition systems work by switching the negative side of the coil primary windings to ground.
D) Most ignition systems work by switching the circuit grounding the ignition coil's secondary windings.

Answer: <https://biology-forums.com/index.php?topic=398969>

Question 2161

Where is the steering wheel sensor typically located?

- A) At the base of the steering column B) Near the steering gear
C) At the center of the steering wheel, under the airbag D) None of these

Answer: <https://biology-forums.com/index.php?topic=400031>

Question 2162

Biodiesel is regular diesel fuel with vegetable oil added.

A) True B) False

Answer: <https://biology-forums.com/index.php?topic=398936>

Question 2163

Which tool is best to measure linear distance?

A) Machinist rule B) Dial indicator C) Micrometer D) None of these

Answer: <https://biology-forums.com/index.php?topic=397691>

Question 2164

Brake fluid pressure is measured in what unit?

A) Inches B) PSI C) Sq. in. D) Pounds

Answer: <https://biology-forums.com/index.php?topic=399529>

Question 2165

Technician A says when testing for maximum alternator output, the battery must be loaded to force the alternator to produce its maximum output.

Technician B says after disassembly, all alternator internal components should be tested using an ammeter. Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398664>

Question 2166

Vehicles built today are in service longer than vehicles built twenty years ago.

A) True B) False

Answer: <https://biology-forums.com/index.php?topic=397382>

Question 2167

Which sensor is used to calculate the amount of fuel required using the speed density method?

A) ECT and IAT sensors B) MAP sensor C) TP sensor D) All of these are used

Answer: <https://biology-forums.com/index.php?topic=399180>

Question 2168

Two technicians are discussing the viscous coupling used in all-wheel drive systems. Technician A says a viscous fluid such as a silicon-based oil is added to the assembly and fills the areas between the clutch plates. Technician B says the viscous coupling is active during equal traction conditions. Which technician is correct?

Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400313>

Question 2169

What automotive devices may contain mercury?

A) Navigation displays B) HID headlights

C) Rear seat video displays D) All of the above

Answer: <https://biology-forums.com/index.php?topic=397527>

Question 2170

Two technicians are discussing oil filters. Technician A says that the oil will remain perfectly clean if just the oil filter is changed regularly. Technician B says that oil filters can filter particles smaller than the human eye can see. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397933>

Question 2171

Technician A says that if the PCV valve were defective or clogged, the engine could idle rough. Technician B says that the engine may stall. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399321>

Question 2172

A rack and pinion inner tie rod end is often secured by which of these methods??

- A) Riveted or pinned B) Staked C) Either A or B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400084>

Question 2173

Technician A says that a stall speed of more than 200 rpm above specification indicates the torque converter stator one-way clutch is not holding. Technician B says that a stall speed that is 250 to 350 rpm below specification indicates possible clutch or band slippage. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400373>

Question 2174

Two technicians are discussing bump steer. Technician A says that an unlevel steering linkage can be its cause. Technician B says that if the steering wheel moves when the vehicle is bounced up and down, the steering linkage may be bent. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400063>

Question 2175

Which of these is NOT a part of a systematic diagnostic approach?

- A) Isolate the cause
B) Verify the problem
C) Recheck after the repair
D) All of these are part of a systematic diagnostic process

Answer: <https://biology-forums.com/index.php?topic=400168>

Question 2176

A long block can be made from a short block with the addition of _____.

- A) Oil pump, oil pan, and timing chain cover B) Intake and exhaust manifolds
C) Fuel pump, carburetor, and air cleaner assembly D) Cylinder heads and valve train

Answer: <https://biology-forums.com/index.php?topic=398042>

Question 2177

Technician A says that many traction control systems reduce engine torque to help the drive wheels achieve traction. Technician B says that hydraulic pressure from the electrohydraulic unit supplies brake fluid pressure to the wheel brake that is spinning during a traction control event. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399841>

Question 2178

The recommended type of wheel weight to use on aluminum (alloy) wheels is _____.

- A) Aluminum weights B) Lead with plated spring steel clips
C) Coated (painted) or stick-on lead weights D) Lead weights with longer than normal clips

Answer: <https://biology-forums.com/index.php?topic=399899>

Question 2179

Technician A says that the TP sensor signal voltage should be about 0.5 volt at idle and increase to about 2.5 volts at wide-open throttle (WOT).

Technician B says a TP sensor can be tested using a DMM, DSO, or scan tool. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399073>

Question 2180

Which terminal of the OBD-II data link connector is the chassis ground for all vehicles?

- A) 5 B) 1 C) 4 D) 3

Answer: <https://biology-forums.com/index.php?topic=398543>

Question 2181

Technician A says that the vent port is open when the brakes are NOT applied. Technician B says that the replenishing port is open when the brakes are NOT applied. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399547>

Question 2182

Which measuring gauge needs to be set up (adjusted) to a fixed dimension before use?

- A) Dial bore gauge B) Vernier dial gauge C) Micrometer D) Dial indicator

Answer: <https://biology-forums.com/index.php?topic=397672>

Question 2183

Technician A says that diesel fuel has more heat energy than gasoline. Technician B says that grade #2 is the grade recommended for normal service in automotive diesel engines. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398943>

Question 2184

Technician A says a pull to the right during braking could be caused by a defective metering valve. Technician B says a pull to the left could be caused by a defective proportioning valve. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399549>

Question 2185

Technician A says that most fuel injection systems use the PCM to control the pulsing of the fuel injectors. Technician B says that most fuel injection systems use the PCM to control the operation of the fuel pump relay. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399176>

Question 2186

Technician A says that lifting the vehicle and turning the steering wheel may help bleed air out of some systems. Technician B says that if this procedure is used, the wheels should be turned from stop to stop. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400104>

Question 2187

A DOHC V-6 has how many camshafts?

- A) 4 B) 3 C) 1 D) 2

Answer: <https://biology-forums.com/index.php?topic=398120>

Question 2188

Power window systems use _____ motors.

- A) Reversible B) Unidirectional C) Servo D) Stepper

Answer: <https://biology-forums.com/index.php?topic=398741>

Question 2189

A vehicle equipped with heated and cooled seats is in the shop for service. What special service may be required for the seats?

- A) resetting the seat timer B) Checking the heating/cooling element filter
C) Changing the Peltier elements D) Refilling the seat coolant fluid

Answer: <https://biology-forums.com/index.php?topic=398748>

Question 2190

What term describes the basic shape and size of a vehicle?

- A) Profile B) Wheelbase C) Track D) Platform

Answer: <https://biology-forums.com/index.php?topic=399937>

Question 2191

What law says employers must provide information about hazardous materials used in the work place?

- A) EPA B) Right to know C) OSHA D) RCRA

Answer: <https://biology-forums.com/index.php?topic=397549>

Question 2192

Which driveshaft can be longer without the need for a center support bearing?

A) Steel B) Aluminum

Answer: <https://biology-forums.com/index.php?topic=400245>

Question 2193

Which type energy is contained by a fully charged battery that is NOT connected to anything?

A) Kinetic B) Electronic C) Potential D) None of these

Answer: <https://biology-forums.com/index.php?topic=397703>

Question 2194

When road testing a vehicle with adjustable dual wheel bearings, a swerve to the right causes noise. Technician A says that the right inner wheel bearing may be bad. Technician B says that those conditions indicate that the left inner bearing may be bad. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399627>

Question 2195

If the starter "whines" when engaged, which of these is a possible cause?

A) Worn leather armature brake B) Open pull-in winding

C) Worn or defective starter drive D) Defective solenoid

Answer: <https://biology-forums.com/index.php?topic=398623>

Question 2196

The top of a tire is tilted out when viewed from the front. This is considered to be _____.

A) Positive caster B) Negative toe C) Positive camber D) Negative camber

Answer: <https://biology-forums.com/index.php?topic=400132>

Question 2197

Valve stem height is most critical on which of these?

A) Adjustable hydraulic lifter systems B) Non-adjustable solid lifter systems

C) Overhead cam engines D) Adjustable solid lifter systems

Answer: <https://biology-forums.com/index.php?topic=398111>

Question 2198

Two technicians are discussing how to remove refrigerant from a system. Technician A says that you can vent it into the atmosphere as long as it has moisture in it. Technician B says that all refrigerant must be captured. Who is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398883>

Question 2199

Technician A says that the starter control circuit includes the ignition switch, neutral safety (clutch) switch, and solenoid. Technician B says that the power circuit includes the battery, battery cables, solenoid, and starter motor. Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398604>

Question 2200

A pyrolytic oven is used to clean parts; however, caution should be used to limit the temperature in order to prevent damaging engine parts. What are the maximum recommended temperatures?

A) 300°F (150°C) for all engine parts B) 600°F (315°C) for aluminum parts

C) 800°F (425°C) for cast iron D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=398063>

Question 2201

The rear brakes should be inspected, and adjusted if necessary, if the parking brake requires more than _____.

A) 20 clicks B) 5 clicks C) 15 clicks D) 10 clicks

Answer: <https://biology-forums.com/index.php?topic=399734>

Question 2202

Horsepower is torque times RPM divided by _____.

A) 550 B) 33000 C) 5252 D) None of these

Answer: <https://biology-forums.com/index.php?topic=397710>

Question 2203

On-board diagnostic (OBD) systems levels I and II are being discussed. Technician A says that only OBD II systems require misfire detection. Technician B says that OBD I was capable of detecting exhaust emission control system failures. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399372>

Question 2204

Technician A says only 4WD rear driveshafts are balanced. Technician B says all RWD driveshafts are balanced. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400237>

Question 2205

Which is NOT a commonly used type of fuel pump design?

- A) Pulsating B) Roller cell C) Turbine D) Gerotor

Answer: <https://biology-forums.com/index.php?topic=399157>

Question 2206

What is an advantage of electronic service information?

- A) Internet access to keep information up to date B) Information may be printed out for future reference
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397777>

Question 2207

Which EPA bin number indicates a cleaner vehicle?

- A) 10 B) 3 C) 8 D) 11

Answer: <https://biology-forums.com/index.php?topic=399273>

Question 2208

The best tool to measure clearance between two components is _____.

- A) Caliper B) Micrometer C) Feeler gauge D) None of these

Answer: <https://biology-forums.com/index.php?topic=397685>

Question 2209

Two technicians are discussing brake lining edge codes. Technician A says that the code can identify the manufacturer. Technician B says that all friction material from the same manufacturer will have the same edge codes. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399633>

Question 2210

It is best to mount a tire with the round sticker aligned with the valve core.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=399903>

Question 2211

Technician A says no wheel speed sensors are adjustable. Technician B says improper tire size can cause ABS system faults. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399826>

Question 2212

A large amount of oxygen in the exhaust system causes the O₂S to produce which of these?

- A) High voltage B) False readings C) Low voltage D) Abnormal readings

Answer: <https://biology-forums.com/index.php?topic=399136>

Question 2213

Which series U-joint has the greatest torque capacity?

A) 1310 B) 1350 C) 1480 D) 1260

Answer: <https://biology-forums.com/index.php?topic=400230>

Question 2214

The rubber used in most brake system components will swell if exposed to _____.

A) DOT 5 brake fluid B) Water C) Engine oil or ATF D) Moisture in the air

Answer: <https://biology-forums.com/index.php?topic=399533>

Question 2215

Technician A always uses a special service tool to pulse fuel injectors. Technician B says that the injector for each cylinder should only be flow tested four times without starting the engine. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399251>

Question 2216

An oxygen sensor is being tested with a digital multimeter using the MIN/MAX function. The readings are: minimum = 78 mV; maximum = 932 mV; average = 442 mV. Technician A says that the engine is operating normally. Technician B says that the oxygen sensor is skewed too rich. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399122>

Question 2217

Most conventional (mineral) oil is made from what API group?

A) Group IV or V B) Group III C) Group II D) Group I

Answer: <https://biology-forums.com/index.php?topic=397928>

Question 2218

Sockets are used with _____.

A) Breaker bars B) Ratchets C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397597>

Question 2219

Technician A says that a defective wheel or axle bearing often makes a growling or rumbling noise. Technician B says that a defective wheel or axle bearing often makes a noise similar to a tire with an aggressive mud or snow design. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399622>

Question 2220

Which statement below best defines the term miscible?

A) The change in viscosity from cold to hot temperatures

B) The oil's resistance to flow

C) The lowest temperature at which oil will flow

D) Oil can mix with other oils without causing problems

Answer: <https://biology-forums.com/index.php?topic=397940>

Question 2221

The name most often used to describe the universal joints on a conventional rear-wheel drive vehicle drive shaft is _____.

A) Cardan B) Trunnion C) CV D) Spider

Answer: <https://biology-forums.com/index.php?topic=400226>

Question 2222

Technician A says that the pushrods should be rotating while the engine is running if the camshaft and lifters are okay. Technician B says that the camshaft rotates at one-quarter the crankshaft speed. Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398124>

Question 2223

On a TXV system, the thermal sensing bulb is located _____.

- A) at the condenser inlet. B) at the condenser outlet.
C) at the evaporator outlet. D) at the evaporator inlet.

Answer: <https://biology-forums.com/index.php?topic=398822>

Question 2224

Technician A says that most TSBs involve a specific stored DTC. Technician B says that the ECT and IAT reading should be close to the same temperature after the vehicle sits for several hours. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399399>

Question 2225

The PCV system controls which exhaust emission(s)?

- A) HC B) CO C) NOx D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=399319>

Question 2226

Technician A says that the anchor pin (shoe anchor) is used to hold one end of the primary and secondary shoe return springs. Technician B says that shoe anchor prevents the brake shoes from rotating with the drum when the brakes are applied. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399636>

Question 2227

Technician A says that the two main links in an SLA suspension are the upper control arm and the lower control arm. Technician B says that front suspensions with MacPherson struts usually have only one control arm. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399961>

Question 2228

Technician A says that SLA suspensions reduce tire scrub. Technician B says that solid rear axles are used with independent rear suspensions. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399997>

Question 2229

Fuel lines are constructed from _____.

- A) Seamless steel tubing B) Nylon plastic
C) Copper and/or aluminum tubing D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=399149>

Question 2230

If 200 amperes flow from the positive terminal of a battery and operate the starter motor, how many amperes will flow back to the negative terminal of the battery?

- A) 200 amperes B) About one-half (100 amperes)
C) Zero D) Cannot be determined

Answer: <https://biology-forums.com/index.php?topic=398309>

Question 2231

Technician A says that studs should be installed finger tight. Technician B says that studs must be installed using a thread locker such as Loctite. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398222>

Question 2232

A digital meter that can show waveforms is a _____.

- A) GMM B) DSO C) DVOM D) DMM

Answer: <https://biology-forums.com/index.php?topic=398396>

Question 2233

Which of the following is a metric bolt?

- A) M12x1.5 B) 8 mm C) 5/16-18 D) 1/2-20

Answer: <https://biology-forums.com/index.php?topic=397554>

Question 2234

Technician A says that the paper test could detect a burned valve. Technician B says that a grayish white stain on the engine could be a coolant leak. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398003>

Question 2235

A one piece oil pan gasket often uses _____ in the middle to add strength.

- A) Steel B) Hard rubber C) Carbon fiber D) Plastic (nylon)

Answer: <https://biology-forums.com/index.php?topic=398202>

Question 2236

Technician A says that LCDs may be slow to work at low temperatures. Technician B says that the LCD dash display can be damaged if pressure is exerted on the front of the display during cleaning. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398692>

Question 2237

Technician A says that an oxygen sensor can have one, two, three, four, or more wires, depending on the style and design. Technician B says that if the exhaust has little oxygen, the voltage of the oxygen sensor will be close to 1 volt (1000 mV) and close to zero if there is high oxygen content in the exhaust. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399133>

Question 2238

Two technicians are discussing rear shock absorbers. Technician A says that if one shock is leaking, then both rear shock absorbers should be replaced. Technician B says that the rear axle should be supported before removing the rear shock absorbers. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399987>

Question 2239

Cross steer linkage is found on _____.

- A) Light trucks and vans B) Sports cars
C) Mid-size sedans D) None of these

Answer: <https://biology-forums.com/index.php?topic=400088>

Question 2240

Technician A says that in a parallel hybrid design, only the electric motor is connected to the transmission. Technician B says that in a parallel hybrid design, the vehicle can be propelled by the electric traction motor, the internal combustion engine, or both. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399431>

Question 2241

Which device may be useful for testing hall effect sensors?

- A) Low power test light B) Logic probe C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398372>

Question 2242

Technician A says that the purpose of SAI is to provide an upper suspension pivot location that causes the spindle to travel in an arc when turning. Technician B says that RWD vehicles typically have a greater SAI angle than FWD vehicles. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400142>

Question 2243

Technician A says that the sharp edges of spool valves should be rounded using 400 grit sandpaper. Technician B says that all valve body parts should be cleaned and then dried using low-pressure, filtered compressed air. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400382>

Question 2244

Technician A says that MAP sensors use a 5-volt reference voltage from the PCM. Technician B says that the MAP sensor voltage will be higher at idle at high altitudes compared to when the engine is operating at near sea level. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399086>

Question 2245

Which of the following linkage types may be used with a rack and pinion design?

- A) Cross steer B) Haltenberger
C) Parallelogram D) None of these is correct

Answer: <https://biology-forums.com/index.php?topic=400074>

Question 2246

A customer wanted the ABS checked because of tire chirp noise during hard braking. Technician A says that the speed sensors may be defective. Technician B says that tire chirp is normal during an ABS stop on dry pavement. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399791>

Question 2247

Technician A says all cable-operated clutch linkages require manual adjustment as part of routine service. Technician B says some cable-operated clutch linkages have a self-adjusting mechanism. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400200>

Question 2248

The oil drains back to the oil pan through _____.

- A) The camshaft B) The pushrods C) Drain pumps D) Drainback holes

Answer: <https://biology-forums.com/index.php?topic=397961>

Question 2249

Heat can be transferred by how many different methods?

- A) Six B) Four C) Three D) None of these

Answer: <https://biology-forums.com/index.php?topic=397720>

Question 2250

Before the strut cartridge can be removed from a typical MacPherson strut assembly, which operation is necessary to prevent possible personal injury?

- A) The lower attaching bolts should be removed
B) The brake caliper and/or brake hose should be removed from the housing
C) The upper strut mounting bolts should be removed
D) The coil spring should be compressed

Answer: <https://biology-forums.com/index.php?topic=399956>

Question 2251

If REAR toe is uneven, the vehicle will pull to the side with the _____ toe-in.

- A) Least B) Most

Answer: <https://biology-forums.com/index.php?topic=400140>

Question 2252

Inadequate purge flow rate will trigger which DTC?

- A) P0300 B) P0440 or P0446 C) P0446 D) P0440

Answer: <https://biology-forums.com/index.php?topic=399284>

Question 2253

The ambient temperature is 70°F and the humidity is low. What should the high side gauge pressure be (AC system on)?

Answer: <https://biology-forums.com/index.php?topic=398864>

Question 2254

Technician A says that used oil should be collected for recycling. Technician B says that used oil filters may be disposed of as regular solid waste only after an approved draining process. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397538>

Question 2255

The driving gear has 15 teeth and the driven gear has 29 teeth. Technician A says that the output gear will be going faster than the input gear. Technician B says the ratio is 3.86:1. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400207>

Question 2256

Which alignment angle is most likely to need correction?

A) SAI B) Toe C) Caster D) Camber

Answer: <https://biology-forums.com/index.php?topic=400157>

Question 2257

A P0410 DTC indicates a problem with _____.

A) MAF airflow B) The SAI solenoid
C) The idle control system D) None of these

Answer: <https://biology-forums.com/index.php?topic=399337>

Question 2258

Technician A says to use synthetic grease to lubricate the backing plate. Technician B says to use special lithium-based brake grease. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399672>

Question 2259

Which gas indicates efficiency? (The higher the level of this gas, the more efficient the engine is operating.)

A) CO₂ B) HC C) O₂ D) CO

Answer: <https://biology-forums.com/index.php?topic=399266>

Question 2260

Which of these is measured as a percentage?

A) Dwell B) Pulse width C) Duty cycle D) None of these

Answer: <https://biology-forums.com/index.php?topic=398405>

Question 2261

What type of motor is used in most electric power steering (EPS) systems?

A) DC brushless B) Stepper C) DC capacitor start D) AC brush type

Answer: <https://biology-forums.com/index.php?topic=400095>

Question 2262

The major types of oil pumps used in an automatic transmission are

A) Gear, crescent, and vane. B) Gear, crescent, and rotor.
C) Gear, pressure, and rotor. D) Gear, vane, and gerotor.

Answer: <https://biology-forums.com/index.php?topic=400350>

Question 2263

Exposure to asbestos dust can cause what condition?

A) Mesothelioma B) Lung cancer C) All of the above D) Asbestosis

Answer: <https://biology-forums.com/index.php?topic=397520>

Question 2264

The negative electrode in a fuel cell is called the _____.

- A) Diode B) Anode C) Cathode D) None of these

Answer: <https://biology-forums.com/index.php?topic=399478>

Question 2265

All these terms have been used to describe communication between the ignition module and PCM EXCEPT _____.

- A) SPOUT B) DIS C) IC D) EST

Answer: <https://biology-forums.com/index.php?topic=398985>

Question 2266

A defective blower motor draws more current than a good motor because _____.

- A) The speed of the motor increases
B) The CEMF decreases
C) The airflow slows down, which decreases the cooling of the motor
D) Both A and C

Answer: <https://biology-forums.com/index.php?topic=398717>

Question 2267

What percentage of correct answers generally results in a passing score?

- A) 70%-74% B) 61%-69% C) 69%-75% D) None of these

Answer: <https://biology-forums.com/index.php?topic=397481>

Question 2268

The sensor that most determines fuel delivery when a fuel injected engine is first started is the _____.

- A) O2S B) ECT sensor C) IAT sensor D) Engine MAP sensor

Answer: <https://biology-forums.com/index.php?topic=399041>

Question 2269

A scan tool is used in diagnosis to observe _____.

- A) Idle air counts B) Long term fuel trim C) Short term fuel trim D) All of these

Answer: <https://biology-forums.com/index.php?topic=399261>

Question 2270

Some cabin filters contain _____ to absorb odors

- A) Perfume B) Activated charcoal C) Synthetic fibers D) Paper filter material

Answer: <https://biology-forums.com/index.php?topic=398827>

Question 2271

Technician A says when the brakes are applied in a vacuum booster, the vacuum control valve is sealed. Technician B says the vacuum control valve is opened. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399781>

Question 2272

If a vibration is felt in the steering wheel above 45 MPH, the problem is usually out-of-balance rear tires.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=399908>

Question 2273

Which circuit failure is most likely to cause a fuse to blow?

- A) Short to ground B) Open C) High resistance D) Short to voltage

Answer: <https://biology-forums.com/index.php?topic=398311>

Question 2274

The positive side of a circuit usually uses what type of a connector, according to the text?

A) Female B) Male C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398466>

Question 2275

A circuit with excessive current flow _____.

- A) May create excess heat in conductors B) May cause a fuse to blow
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398326>

Question 2276

When the top of the steering axis is tilted 2 degrees toward the rear of the vehicle, it is called _____.

- A) Negative camber B) Positive caster C) Positive camber D) Negative caster

Answer: <https://biology-forums.com/index.php?topic=400121>

Question 2277

Main bearings and rod bearings should be checked for proper oil clearance by precision measuring the crankshaft journals and inside diameter of bearings, or by using which of these?

- A) Vernier caliper B) Rubber gauging material
C) Plastigage material D) Steel ruler

Answer: <https://biology-forums.com/index.php?topic=398246>

Question 2278

The primary (low-voltage) ignition system must be working correctly before any spark occurs from a coil. Which component is NOT in the primary ignition circuit?

- A) Ignition switch B) Spark plug wires C) Ignition module D) Pick up coil

Answer: <https://biology-forums.com/index.php?topic=398958>

Question 2279

How many years of experience are required to achieve ASE certification?

- A) 2 B) 4 C) 6 D) 8

Answer: <https://biology-forums.com/index.php?topic=397460>

Question 2280

Technician A says that a stuck open wastegate can cause the engine to burn oil. Technician B says that a clogged PCV system can cause the engine to burn oil. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397990>

Question 2281

What part in the master cylinder helps keep air from contacting the brake fluid yet allows the fluid level to drop as the disc brakes wear?

- A) Compensating port B) Residual valve
C) Vent valve D) Rubber diaphragm or floating disc

Answer: <https://biology-forums.com/index.php?topic=399531>

Question 2282

Technician A says that magnetism can cause electric current to flow in a conductor. Technician B says that magnetic lines of flux can never penetrate rubber insulation on a conductor. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398503>

Question 2283

Which computer function is defined as a voltage signal from a sensor or switch?

- A) Process B) Output C) Input D) Storage

Answer: <https://biology-forums.com/index.php?topic=399026>

Question 2284

It requires _____ volt(s) to push 1 ampere through 1 ohm of resistance.

- A) 12 B) 1 C) 2 D) None of these

Answer: <https://biology-forums.com/index.php?topic=398321>

Question 2285

Which starting system component uses a small amount of current to control a large amount of current?

- A) Starter brushes
- B) Starter drive
- C) Starter solenoid or relay
- D) Neutral safety switch

Answer: <https://biology-forums.com/index.php?topic=398603>

Question 2286

Which of the following is NOT a function of the expansion valve?

- A) Meter refrigerant into the evaporator for maximum cooling
- B) Provide the restriction that separates the low side from the high side
- C) Prevent the evaporator from freezing
- D) Allow liquid refrigerant to return to the compressor

Answer: <https://biology-forums.com/index.php?topic=398804>

Question 2287

Which of these tactics is involved with skillful listening techniques?

- A) Make eye contact with the speaker
- B) Listen with an open mind
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397439>

Question 2288

Technician A says oily residue on hoses, components, or fittings indicates an area where refrigerant may be leaking. Technician B says damaged condenser fins may cause inefficient air conditioning operation at all blower speeds. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398856>

Question 2289

A cardan-type U-joint may require what tool(s) to replace?

- A) A press or a vice
- B) A torch
- C) A special tool
- D) May require any of the above

Answer: <https://biology-forums.com/index.php?topic=400257>

Question 2290

Many technicians always use new pushrods because _____.

- A) They wear at both ends
- B) Pushrods shrink in length if removed from an engine
- C) They are less expensive to buy than clean
- D) All dirt cannot be cleaned out from the hollow center

Answer: <https://biology-forums.com/index.php?topic=398119>

Question 2291

What happens when a clutch pedal is depressed?

- A) The release bearing is pushing against the release levers
- B) The pressure plate springs are compressed
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400197>

Question 2292

The owner of a vehicle equipped with cruise control complains that the cruise control often stops working when driving over a rough or bumpy road. Technician A says that the brake switch may be out of adjustment. Technician B says that a defective servo unit is the most likely cause. Who is right?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398727>

Question 2293

Technician A says to inflate the tires to manufacturer's specifications before performing a wheel alignment. Technician B says to thoroughly inspect the steering and suspension components before performing a wheel alignment. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400169>

Question 2294

A throttle position sensor waveform is going to be observed. At what setting should the volts per division be set to see the entire waveform from 0 volts to 5 volts?

A) 5.0 V/Div B) 2.0 V/Div C) 0.5 V/Div D) 1.0 V/Div

Answer: <https://biology-forums.com/index.php?topic=398391>

Question 2295

Two technicians are discussing engine horsepower and torque figures. Technician A says that torque is measured on a dynamometer. Technician B says that horsepower is measured on a dynamometer. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397695>

Question 2296

Which type of automotive bearing can withstand radial and thrust loads, yet must be adjusted for proper clearance?

A) Roller bearing B) Tapered roller bearing

C) Needle roller bearing D) Ball bearings

Answer: <https://biology-forums.com/index.php?topic=399614>

Question 2297

A five-speed transmission is in fourth gear. Which is correct?

A) The 3-4 synchronizer has engaged the input shaft gear

B) There is a 1:1 gear ratio

C) Both A and B

D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400216>

Question 2298

Technician A says that a waste spark ignition system fires two spark plugs at the same time. Technician B says that the waste spark ignition system uses ignition coils connected to companion cylinders. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398983>

Question 2299

The technician team leader is generally competent only in general maintenance tasks.

A) True B) False

Answer: <https://biology-forums.com/index.php?topic=397391>

Question 2300

Technician A says that the torque applied to the head bolts is the same as the clamping force on the gasket. Technician B says that the clamping force is the force actually applied to the surfaces of the gasket. Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398219>

Question 2301

Technician A says that lifting hooks should be used when hoisting an engine. Technician B says that engine component parts should only be removed when the engine is at operating temperature. Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398050>

Question 2302

What type of gloves provide thermal protection?

A) Nitrile gloves B) Mechanics gloves C) Latex gloves D) None of these

Answer: <https://biology-forums.com/index.php?topic=397500>

Question 2303

Technician A says that pure (distilled) water has a pH of 7. Technician B says that the pH of an acids is less than 7. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397700>

Question 2304

Which job would be concerned with the maintenance of shop equipment?

- A) Shop owner B) Shop foreman C) Service manager D) Any of these

Answer: <https://biology-forums.com/index.php?topic=397376>

Question 2305

Two bulbs are connected in parallel to a 12-volt battery. One bulb has a resistance of 6 ohms and the other bulb has a resistance of 2 ohms.

Technician A says that only the 2-ohm bulb will light because all of the current will flow through the path with the least resistance and no current will flow through the 6-ohm bulb. Technician B says that the 6-ohm bulb will be dimmer than the 2-ohm bulb. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398337>

Question 2306

What should be included in a cover letter?

- A) Where you learned of the job opening B) A statement that you meet requirements for the job
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397418>

Question 2307

Technician A says that a hoist can be stopped at any level as long as the safety latch engages. Technician B says that the vehicle should be hoisted to the top of the hoist travel for safety. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397646>

Question 2308

The lower the Ra of a rotor, the _____ the surface.

- A) Higher B) Smoother C) Lower D) Rougher

Answer: <https://biology-forums.com/index.php?topic=399753>

Question 2309

What is the maximum pressure a power steering pump provides during low speed cornering?

- A) 250 psi B) 1400 psi C) 500 psi D) 90 psi

Answer: <https://biology-forums.com/index.php?topic=400110>

Question 2310

Exhaust hoses should be used because one of the exhaust gasses can be deadly in high concentrations. This gas is _____.

- A) Carbon dioxide B) Oxides of nitrogen C) Carbon monoxide D) Hydrocarbons

Answer: <https://biology-forums.com/index.php?topic=397493>

Question 2311

Bench testing of a starter should be done _____.

- A) After reassembling an old starter B) Before installing a new starter
C) After removing the old starter D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=398617>

Question 2312

Two technicians are discussing the proper procedure for bleeding air from a power steering system. Technician A says that the front wheels of the vehicle should be lifted off the ground before bleeding. Technician B says that the steering wheel should be turned left and right with the engine off during the procedure. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400089>

Question 2313

Which sensor might use an aspirator tube?

A) Evaporator outlet temperature B) Outside air temperature
C) Discharge air temperature D) Inside vehicle temperature
Answer: <https://biology-forums.com/index.php?topic=398828>

Question 2314

All of these are hazardous waste EXCEPT _____.
A) Air-conditioning refrigerant and oils B) Used engine coolant and antifreeze
C) Cleaning solvent D) All of these are hazardous wastes
Answer: <https://biology-forums.com/index.php?topic=397530>

Question 2315

Two technicians are discussing how torque is increased inside a manual transmission/transaxle. Technician A says that the gear ratio in first gear between the main shaft and the countershaft should be multiplied by the ratio of the corresponding countershaft gear and output shaft gear. Technician B says that the two ratios should be added together. Which technician is correct?
A) Technician A B) Technician B C) Both technicians D) Neither technician
Answer: <https://biology-forums.com/index.php?topic=400209>

Question 2316

Technician A says that the piston and rod assembly should be installed in the cylinder after being carefully fitted for each bore. Technician B says that connecting rod side clearance should be checked with a feeler (thickness) gauge. Who is right?
A) Technician A B) Technician B C) Both technicians D) Neither technician
Answer: <https://biology-forums.com/index.php?topic=398245>

Question 2317

An OBD-I Ford is able to provide engine serial data if there are terminals in which cavities of the DLC?
A) 1 and 3 B) 2 and 4 C) 2 and 6 D) 1 and 2
Answer: <https://biology-forums.com/index.php?topic=398544>

Question 2318

Two technicians are discussing the purpose of a transfer case in a four-wheel-drive system. Technician A says it transfers power to an additional axle. Technician B says some transfer cases have two speeds. Which technician is correct?
A) Technician A only B) Technician B only C) Both technicians D) Neither technician
Answer: <https://biology-forums.com/index.php?topic=400307>

Question 2319

Which type lever reduces force but increases the distance travelled?
A) Second class B) Third class C) Both A and B D) Neither A nor B
Answer: <https://biology-forums.com/index.php?topic=397718>

Question 2320

Which type of Phillips screwdriver has the sharpest tip?
A) #3 B) #1 C) #2 D) None of these
Answer: <https://biology-forums.com/index.php?topic=397606>

Question 2321

The internal resistance of any meter is only effective if the meter is set on the _____ scales.
A) Ammeter B) Ohmmeter C) Voltmeter D) None of these
Answer: <https://biology-forums.com/index.php?topic=398379>

Question 2322

If metal shims are used for alignment adjustment in the front, they adjust _____.
A) Camber B) Caster C) Toe D) Both A and B
Answer: <https://biology-forums.com/index.php?topic=400152>

Question 2323

Plugging can be used to repair cracks _____.
A) Only in cast-iron blocks B) In both cast-iron and aluminum cylinder heads
C) In cast-iron cylinder heads D) In aluminum cylinder heads

Answer: <https://biology-forums.com/index.php?topic=398069>

Question 2324

Which type of oscilloscope displays all voltages without taking samples?

- A) Complex B) Digital C) Analog D) None of these

Answer: <https://biology-forums.com/index.php?topic=398397>

Question 2325

A transfer case contains all of the following components, EXCEPT _____.

- A) Four drive sprockets B) Planetary gearset assembly
C) Shift mechanism D) Front output shaft

Answer: <https://biology-forums.com/index.php?topic=400312>

Question 2326

Which of the following is NOT a function of an antilock brake system (ABS)?

- A) Allow elimination of the proportioning valve
B) Helps maintain vehicle control while braking
C) Maintain directional stability on slippery surfaces
D) Allows drivers to drive more closely to the vehicle in front

Answer: <https://biology-forums.com/index.php?topic=399801>

Question 2327

What is the maximum amount generally allowed for camber side-to-side difference?

- A) 1 degree B) 1/2 degree
C) 0 degrees D) None of these are correct

Answer: <https://biology-forums.com/index.php?topic=400135>

Question 2328

A weak-sounding horn is being diagnosed. Technician A says that a poor ground connector at the horn itself could be the cause. Technician B says that an open relay can be the cause. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398711>

Question 2329

Technician A says that labor guides often provide more time for severely rusted or damaged vehicles. Technician B says that some labor guides also provide parts and price information. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397770>

Question 2330

How much current flows through the alternator brushes?

- A) 2-5
B) 25 to 35 A, depending on the vehicle
C) All of the alternator output flows through the brushes
D) 10 to 15 A

Answer: <https://biology-forums.com/index.php?topic=398637>

Question 2331

Which of the following could be reasons for poor engine performance in cold weather?

- A) Low fuel pressure B) Contaminated fuel
C) Insufficient fuel volume D) All of these are correct

Answer: <https://biology-forums.com/index.php?topic=399259>

Question 2332

Technician A says that when removing pinch bolt connections, turn the nut, not the bolt. Technician B says to tighten the pinch bolt until the steering knuckle is deformed by 0.050 inches. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399976>

Question 2333

When using an engine stand _____.

- A) Use standard hardware store bolts are OK to use in mounting the engine
- B) Cover the engine with plastic when not in use to serve as a shield from moisture and dirt
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397634>

Question 2334

Technician A says that one heater hose should be hot and the other hose cool if the heater is functioning okay. Technician B says that both hoses should be hot to the touch. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398847>

Question 2335

The type of solder that should be used for electrical work is _____.

- A) Rosin core
- B) 60/40 with no flux
- C) Acid core
- D) 50/50 with acid paste flux

Answer: <https://biology-forums.com/index.php?topic=398411>

Question 2336

The SAE standard for hoist location is _____.

- A) JRP-2184
- B) J-1980
- C) SAE-2009
- D) J-14302

Answer: <https://biology-forums.com/index.php?topic=397642>

Question 2337

Technician A says that a vibration above 45 MPH indicates a possible out-of-balance tire. Technician B says that a vibration above 45 MPH can only be diagnosed if engine load is considered. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399906>

Question 2338

Which type of screwdriver can be used as a chisel?

- A) Flat blade
- B) Phillips
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397605>

Question 2339

Which of the following could cause oil fouled spark plugs?

- A) Low engine temperature
- B) Defective valve stem seals
- C) Weak ignition system output
- D) Short trips or excessive idling

Answer: <https://biology-forums.com/index.php?topic=399009>

Question 2340

Two technicians are discussing bleeding a hydraulic clutch. Technician A says to open the bleeder and allow the fluid to gravity bleed. Technician B says to have an assistant slowly depress the clutch pedal as the bleeder valve is opened at the slave cylinder to bleed the air out of the system. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400186>

Question 2341

Technician A says that an Audi five-valve engine uses three intake valves and two exhaust valves. Technician B says that it uses three exhaust valves and two intake valves. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398082>

Question 2342

What clogs fuel filters when the temperature is low on a vehicle that uses diesel fuel?

A) Cetane B) Wax C) Alcohol D) Sulfur

Answer: <https://biology-forums.com/index.php?topic=398931>

Question 2343

Which angle is calculated as the wheels are turned from side to side?

A) Caster B) TOOT C) Toe D) Camber

Answer: <https://biology-forums.com/index.php?topic=400175>

Question 2344

The air filter restriction indicator uses what to detect when it signals to replace the filter?

A) The amount of restriction measured in inches of water
B) Number of miles or vehicle travel
C) The amount of light that can pass through the filter
D) Number of hours of engine operation

Answer: <https://biology-forums.com/index.php?topic=397963>

Question 2345

One rear leaf spring is broken. Technician A says that both rear leaf springs should be replaced. Technician B says that only the broken spring needs to be replaced. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399990>

Question 2346

A vehicle will pull to the side with the most (positive) camber.

A) True B) False

Answer: <https://biology-forums.com/index.php?topic=400127>

Question 2347

Technician A says that comparing height sensors from side to side allows the ECM to calculate acceleration force. Technician B says that only Hall-effect sensors are used as height sensors. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400027>

Question 2348

Two technicians are discussing a problem where the brake pedal travels too far before the vehicle starts to slow. Technician A says that the brakes may be out of adjustment. Technician B says that one circuit from the master cylinder may be leaking or defective. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399526>

Question 2349

Capacitors block the flow of _____ current but allow _____ current to pass.

A) DC; AC B) Weak; strong C) Strong; weak D) AC; DC

Answer: <https://biology-forums.com/index.php?topic=398474>

Question 2350

If regular-grade gasoline is used in an engine designed for premium gasoline, what might result?

A) Reduced engine power B) Reduced fuel economy
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398905>

Question 2351

Which of these is the term used for electrical power?

A) Amps B) Volts C) Watts D) None of these

Answer: <https://biology-forums.com/index.php?topic=398289>

Question 2352

An air conditioning performance check requires _____

A) a thermometer and a vacuum pump. B) a thermometer and a hydrometer.

C) a manifold gauge set and a volt-ohmmeters. D) a thermometer and a manifold gauge set.

Answer: <https://biology-forums.com/index.php?topic=398860>

Question 2353

Technician A says that non-emission related codes that make the MIL illuminate are called "Type A" codes. Technician B says that emission related codes that illuminate the MIL after the first fault are called "Type A" codes. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399408>

Question 2354

Technician A says that variable ratio steering is the same thing as variable assist steering. Technician B says that constant ratio shaft and sector gears are the same size, unlike systems with variable ratio steering. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400060>

Question 2355

The voltage drop for each branch of a parallel circuit is _____.

A) Increased by the resistance of loads in each branch B) Reduced by the resistance of loads in each branch
C) Equal D) None of these

Answer: <https://biology-forums.com/index.php?topic=398352>

Question 2356

The ignition system pickup coil or trigger is usually electrically connected to the _____.

A) Rotor B) Ignition coil C) Distributor cap D) Ignition module

Answer: <https://biology-forums.com/index.php?topic=398971>

Question 2357

Force motors are controlled by the computer by _____.

A) Increasing/ decreasing current B) Increasing/ decreasing voltage
C) PWM D) Changing resistance to the circuit

Answer: <https://biology-forums.com/index.php?topic=400348>

Question 2358

Two technicians are discussing an automatic transmission that will not go into any forward gear or reverse. Technician A says that a defective PCM or TCM could be the cause. Technician B says that a defective or worn pump could be the cause. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400363>

Question 2359

Technician A says that a defective high-speed blower motor relay could prevent high speed blower operation, yet allow normal operation at lower speeds. Technician B says that a defective (open) blower motor resistor can prevent low-speed blower operation, yet permit normal high-speed operation. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398709>

Question 2360

A starter motor rotates about _____ times faster than the engine?

A) 2 B) 5 C) 18 D) 10

Answer: <https://biology-forums.com/index.php?topic=398598>

Question 2361

Technician A says that it is generally easier to install the starter after the engine is put in the chassis. Technician B says that some engines drive all the accessories with one belt. Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398268>

Question 2362

An ohmmeter should be connected to the circuit or component being tested _____.

- A) With current flowing in the circuit or through the component
- B) When connected to the battery of the vehicle to power the meter
- C) Only when no power is flowing (electrically open circuit)
- D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=398363>

Question 2363

Technician A says that all vehicles from the same manufacturer use the exact same power steering fluid. Technician B says that some fluids may be incompatible with system seals. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400102>

Question 2364

Which wire on a typical TP sensor should backprobed to check the voltage signal to the PCM?

- A) 5-volt reference (Vref)
- B) Ground wire
- C) Signal wire
- D) Meter should be connected between 5-volt reference and ground

Answer: <https://biology-forums.com/index.php?topic=399065>

Question 2365

Normal cranking speed of an engine is about _____.

- A) 2000 RPM
- B) 1500 RPM
- C) 200 RPM
- D) 1000 RPM

Answer: <https://biology-forums.com/index.php?topic=398597>

Question 2366

Which of these is NOT an advantage of a series hybrid design?

- A) A single-speed gearbox can be used
- B) Smaller internal combustion engine
- C) No transmission is necessary
- D) All of these are advantages of the series hybrid design

Answer: <https://biology-forums.com/index.php?topic=399430>

Question 2367

The typical RWD drive shaft rotates how many times faster than the wheels?

- A) Three
- B) One
- C) Two
- D) It rotates at the same speed

Answer: <https://biology-forums.com/index.php?topic=400263>

Question 2368

What is true of ULEV vehicles?

- A) They meet a higher standard than LEV vehicles
- B) ULEV is a California standard emphasizing low HC emissions
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397805>

Question 2369

Technician A says that the computer can be used to control the output of the alternator by controlling the field current. Technician B says that voltage regulators control the alternator output by controlling the field current through the rotor. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398657>

Question 2370

In 1900, which propulsion method was most widely used in passenger vehicles?

- A) Gasoline
- B) Steam
- C) Coal
- D) Diesel

Answer: <https://biology-forums.com/index.php?topic=397348>

Question 2371

Technician A says that the first step in diagnosing engine condition is to perform a thorough visual inspection. Technician B says that oil leaks can be found by measuring straight up from where the oil drips on the floor. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398013>

Question 2372

Technician A says that an electronic control module used in the suspension system is the same as that used for engine control. Technician B says that most electronically controlled suspension systems use a separate electronic control module. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400014>

Question 2373

What purpose does the flexible coupling attached to the steering column serve?

- A) Changes direction of movement B) Acts as a collapsible part of the steering shaft
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400053>

Question 2374

Some systems also have a _____ sensor between the throttle body and the air cleaner.

- A) Throttle position sensor (TPS) B) Exhaust gas sensor (EGS)
C) Mass airflow (MAF) D) Air temperature

Answer: <https://biology-forums.com/index.php?topic=397979>

Question 2375

Before draining a manual transmission to replace the fluid, what should the technician do first?

- A) Check service information for the specified fluid B) Check to see if the fill plug can be removed
C) Purchase SAE 80W-90 gear lube D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=397812>

Question 2376

Technician A says used coolant should never be recycled. Technician B says coolant types that include DEX-COOL are ethylene glycol-based. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397896>

Question 2377

In general, a good brake fluid should _____.

- A) Hold moisture well B) Freeze at very low temperatures
C) Not boil easily D) Be very thick

Answer: <https://biology-forums.com/index.php?topic=399583>

Question 2378

A steering wheel position sensor is being discussed. Technician A says that the sensor is used to determine the direction of the steering wheel. Technician B says that the sensor detects how fast the steering wheel is turned. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400013>

Question 2379

Which sensor has a switch that controls the electric fuel pump?

- A) Hot filter MAF B) Karman Vortex sensor
C) Hot wire MAF D) VAF

Answer: <https://biology-forums.com/index.php?topic=399101>

Question 2380

Which term describes current flow produced in a complete circuit when a magnetic field is moved back and forth across the circuit path?

- A) Magnetic induction B) Magnetic potential
C) Electromagnetic reluctance D) None of these

Answer: <https://biology-forums.com/index.php?topic=398505>

Question 2381

A normally aspirated automobile engine loses about _____ power per 1000 feet of altitude.

- A) 3% B) 1% C) 6% D) 5%

Answer: <https://biology-forums.com/index.php?topic=397834>

Question 2382

Technician A says that DMMs are assigned CAT ratings based on voltage capacity alone. Technician B says that DMMs are rated according to their ability to handle potential electrical energy. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399450>

Question 2383

Weight transfer during braking is caused by _____.

- A) Brake bias B) Inertia C) Friction D) Weight bias

Answer: <https://biology-forums.com/index.php?topic=399518>

Question 2384

The two rack and pinion steering gear adjustments include _____.

- A) Pinion bearing preload and rack support B) Sector shaft and stub shaft preload
C) Stub shaft endplay and sector shaft preload D) Worm bearing preload and tolerance adjustment

Answer: <https://biology-forums.com/index.php?topic=400044>

Question 2385

DTC P0302 is a _____.

- A) Transmission/transaxle-related DTC B) Idle speed-related DTC
C) Generic DTC D) Vehicle manufacturer-specific DTC

Answer: <https://biology-forums.com/index.php?topic=399362>

Question 2386

Hotline services are _____.

- A) Available on CD or DVD format B) Accessed by the internet
C) Free D) Available for a service fee

Answer: <https://biology-forums.com/index.php?topic=397760>

Question 2387

Air in the lines will cause what type of problem?

- A) Low spongy brake pedal B) Hard brake pedal
C) Brake noise D) Vibration in the brake pedal during stops

Answer: <https://biology-forums.com/index.php?topic=399527>

Question 2388

Clear water is observed dripping out from beneath the vehicle. Technician A says that is normal. Technician B says that the evaporator housing is defective and should be replaced. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398799>

Question 2389

Which type system uses a one speed transfer case and a center differential with a viscous coupling?

- A) All wheel drive B) Part time 4WD
C) Full time 4WD with automatic locking hubs D) Full time 4WD

Answer: <https://biology-forums.com/index.php?topic=400301>

Question 2390

Technician A says that CAT I meter leads may be used to test HV system components as long as the DMM itself is rated CAT III. Technician B says that CAT IV test leads are clamp-on inductive type leads. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399449>

Question 2391

Many aluminum piston skirts are plated with _____.
A) Lead B) Antimony C) Tin or moly graphite D) Terneplate
Answer: <https://biology-forums.com/index.php?topic=398139>

Question 2392

Winter blend gasoline _____.
A) Has a higher RVP
B) Can cause engine driveability problems if used during warm weather
C) Vaporizes more easily than summer blend gasoline
D) All of the above
Answer: <https://biology-forums.com/index.php?topic=398886>

Question 2393

The brakes on a vehicle work OK for a while, then the vehicle slows because the brakes self-applied. Technician A says that an overfilled master cylinder could be the cause. Technician B says that a blocked vent port (compensating port) could be the cause. Which technician is correct?
A) Technician A only B) Technician B only C) Both technicians D) Neither technician
Answer: <https://biology-forums.com/index.php?topic=399532>

Question 2394

Technician A says that a power balance test is the best way to isolate a problem cylinder. Technician B says that a compression and cylinder leakage test can help determine the cause of the problem. Which technician is correct?
A) Technician A B) Technician B C) Both technicians D) Neither technician
Answer: <https://biology-forums.com/index.php?topic=399400>

Question 2395

Dampers (damper springs) are used inside some valve springs to _____.
A) Retain valve stem seals B) Decrease valve spring pressure
C) Keep the valve spring attached to the valve D) Prevent valve spring surge
Answer: <https://biology-forums.com/index.php?topic=398106>

Question 2396

What term describes the order that the spark reaches the cylinders?
A) Firing order B) Base timing
C) Performance specification D) Initial sequence
Answer: <https://biology-forums.com/index.php?topic=399010>

Question 2397

Technician A says that a diesel hybrid is not possible. Technician B says that a diesel hybrid is possible but is not cost effective enough for production at this time. Which technician is correct?
A) Technician A B) Technician B C) Both technicians D) Neither technician
Answer: <https://biology-forums.com/index.php?topic=399423>

Question 2398

Which tool is best to measure valve guide diameter?
A) Telescoping gauge B) Feeler gauge C) Small hole gauge D) None of these
Answer: <https://biology-forums.com/index.php?topic=397683>

Question 2399

Which crack detection technique requires the use of a blacklight?
A) Dye penetrant B) Zyglo C) Magnetic flux D) None of these
Answer: <https://biology-forums.com/index.php?topic=398078>

Question 2400

Insulators lose electrons in their outer shell easier than conductors.
A) True B) False
Answer: <https://biology-forums.com/index.php?topic=398285>

Question 2401

Which of these is an accurate description of a service advisor's responsibilities?

- A) Thoroughly document details regarding the customer's concern
- B) Perform a preliminary diagnosis
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397392>

Question 2402

What term describes the inward tilt of the steering axis?

- A) SAI
- B) King pin inclination
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400141>

Question 2403

The compressor operates continuously in which type of system?

- A) Orifice tube
- B) POA/EPR

Answer: <https://biology-forums.com/index.php?topic=398796>

Question 2404

The diesel exhaust fluid is injected _____.

- A) Just in front of the muffler
- B) Into the exhaust manifold
- C) At the end of the tail pipe
- D) After the oxidation catalyst

Answer: <https://biology-forums.com/index.php?topic=397878>

Question 2405

What percent of opacity means that the exhaust is so dark that it completely blocks light from a beam projected through the exhaust smoke?

- A) 25 %
- B) 0 %
- C) 50 %
- D) 100 %

Answer: <https://biology-forums.com/index.php?topic=397872>

Question 2406

Which metal listed below is used in some automotive components, and must be removed before recycling automotive body materials?

- A) Aluminum
- B) Lead
- C) Mercury
- D) Iron

Answer: <https://biology-forums.com/index.php?topic=397546>

Question 2407

The button on the _____ valve should be held when pressure bleeding the brakes.

- A) Residual check
- B) Pressure-differential
- C) Metering
- D) Proportioning

Answer: <https://biology-forums.com/index.php?topic=399591>

Question 2408

What is the name of the flexible coupling that allows two shafts to join and allow plunging?

- A) U-joint
- B) Pot joint
- C) Plunge joint
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=400054>

Question 2409

The ozone layer is in which of earth's atmospheric layers?

- A) Mesosphere
- B) Thermosphere
- C) Stratosphere
- D) None of these is correct

Answer: <https://biology-forums.com/index.php?topic=398803>

Question 2410

FWD driveshaft problems are usually indicated by _____.

- A) Noise
- B) Grease from a torn boot
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400275>

Question 2411

The largest percentage of automotive battery electrolyte is _____.

- A) Sulfuric Acid B) Water
C) Potassium phosphate D) None of these

Answer: <https://biology-forums.com/index.php?topic=398567>

Question 2412

Which reading represents the lowest vacuum reading?

- A) 28 in. Hg B) 27 in. Hg C) 29 in. Hg D) 500 microns

Answer: <https://biology-forums.com/index.php?topic=398871>

Question 2413

Which of these causes primary vibration?

- A) Flexplate B) Flywheel C) Pistons D) Harmonic balancer

Answer: <https://biology-forums.com/index.php?topic=398195>

Question 2414

Which of these are helpful websites for service information on the Internet?

- A) NASTF B) IATN C) Google D) All of these

Answer: <https://biology-forums.com/index.php?topic=397449>

Question 2415

Technician A says an antilock system that operates on the select-low principle will control each rear wheel individually. Technician B says systems using the select-low principle regulates rear wheel brake pressure to both rear wheel simultaneously. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399802>

Question 2416

When the positive lead of a diode is connected to the positive side of a circuit, it is called _____.

- A) Forward bias B) Reverse bias C) Negative bias D) None of these

Answer: <https://biology-forums.com/index.php?topic=398525>

Question 2417

When purchasing replacement tires, do not change tire width from the stock size by more than _____.

- A) 20 mm B) 10 mm C) 25 mm D) 15 mm

Answer: <https://biology-forums.com/index.php?topic=399852>

Question 2418

Technician A says that a steel piston should have a greater piston-to-caliper bore clearance than a phenolic piston because the steel piston will expand when the brake fluid temperature increases during normal braking. Technician B says that the phenolic piston should have the greater clearance. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399726>

Question 2419

Anytime a set of aluminum wheels is installed, the lug nuts should be re-torqued after how many miles?

- A) 50 B) 100 C) 25 D) 75

Answer: <https://biology-forums.com/index.php?topic=399918>

Question 2420

Magnetic crack inspection _____.

- A) Uses a red dye to detect cracks in aluminum
B) Uses a black light to detect cracks in iron parts
C) Uses a magnet to remove cracks from iron parts
D) Uses a fine iron powder to detect cracks in iron parts

Answer: <https://biology-forums.com/index.php?topic=398067>

Question 2421

What is the symbol for voltage used in calculations?

A) R B) EMF C) I D) E

Answer: <https://biology-forums.com/index.php?topic=398310>

Question 2422

How are the antilock system valves activated on a Kelsey-Hayes 4WAL system?

- A) Switched on or off B) Frequency modulation
C) Pulse width modulation D) None of these is correct

Answer: <https://biology-forums.com/index.php?topic=399821>

Question 2423

DOT 5 brake fluid _____.

- A) Absorbs water easily B) May be mixed with DOT 3 and DOT 4 fluid
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397824>

Question 2424

Technician A says that solid rear axles are used only in rear-wheel drive vehicles. Technician B says that solid rear axles are used in both front-wheel drive and rear-wheel drive vehicles. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399992>

Question 2425

During an interview, try to _____.

- A) Explain your work experience B) State your willingness to work
C) Show enthusiasm D) All of these

Answer: <https://biology-forums.com/index.php?topic=397402>

Question 2426

A "dry park" test to determine the condition of the steering components and joints should be performed with the vehicle _____.

- A) On turn plates that allow the front wheels to move
B) Lifted off the ground about 2 inches
C) On a frame contact lift with the wheels off the ground
D) On level ground or on a drive-on lift

Answer: <https://biology-forums.com/index.php?topic=400062>

Question 2427

To directly measure the diameter of a valve guide in a cylinder head, use a micrometer and a _____.

- A) Telescopic gauge B) Dial indicator C) Feeler gauge D) Small hole gauge

Answer: <https://biology-forums.com/index.php?topic=397669>

Question 2428

A 200 amp circuit that is 25 feet long should use wire of which AWG rating?

- A) 16 ga. B) 14 ga. C) 18 ga. D) 2 ga.

Answer: <https://biology-forums.com/index.php?topic=398422>

Question 2429

Technician A says that a flexible coupling connects the steering shaft to the gear input shaft. Technician B says that the coupling connecting the steering shaft to the gear input shaft may be a universal joint. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400048>

Question 2430

Front-wheel drive vehicles usually use what type of wheel?

- A) Positive offset B) Negative offset

Answer: <https://biology-forums.com/index.php?topic=399856>

Question 2431

A MAP sensor is being discussed. Technician A says that many MAP sensors act as a barometric pressure sensor when the ignition switch is turned

off. Technician B says that on many MAP sensors the signal voltage should increase when the vacuum at the sensor decreases. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399089>

Question 2432

When used on the brake pedal, leverage produces a mechanical advantage expressed as _____.

- A) Applied force B) Pedal ratio C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397719>

Question 2433

Technician A says that automotive bulbs are identified by trade numbers. Technician B says that the trade number is the different for each manufacturer for the exact same bulb specification. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398678>

Question 2434

What can cause hard steering on a vehicle equipped with a hydraulic power assisted steering system?

- A) Low or contaminated power steering fluid B) Low tire pressure
C) Slipping power steering pump drive belt D) Any of the above

Answer: <https://biology-forums.com/index.php?topic=400092>

Question 2435

Which timing chain type is also called a "silent chain"?

- A) Roller B) Morse C) Flat link D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=398116>

Question 2436

When speaking with a customer, Technician A uses profanity only if the customer uses foul language first. Technician B says that its okay to use profane language with younger customers because they can relate better. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397441>

Question 2437

A telescopic gauge is used with what other measurement tool?

- A) Straightedge B) Feeler gauge C) Micrometer D) None of these

Answer: <https://biology-forums.com/index.php?topic=397680>

Question 2438

_____ the time base setting reduces the number of samples per second.

- A) Decreasing B) Increasing C) Dividing D) None of these

Answer: <https://biology-forums.com/index.php?topic=398402>

Question 2439

Which is NOT recommended during an interview?

- A) Wear jeans B) Wear shoes that are not sneakers
C) Wear a shirt with a collar D) Have clean hair

Answer: <https://biology-forums.com/index.php?topic=397401>

Question 2440

Master cylinder covers must be vented to _____.

- A) Allow air to enter the system B) Allow fluid to escape when it heats up
C) Create a vacuum D) Avoid creating a vacuum

Answer: <https://biology-forums.com/index.php?topic=399544>

Question 2441

MAF sensor electrical connectors should be checked for all of these, EXCEPT _____.

- A) Over-tight connectors
B) Corrosion

- C) Frayed wiring
- D) Terminals bent or pushed out of the plastic connector

Answer: <https://biology-forums.com/index.php?topic=399116>

Question 2442

After a disc brake pad replacement, the brake pedal went to the floor the first time the brake pedal was depressed. The most likely cause was _____.

- A) Lack of proper lubrication of the caliper slides
- B) Normal operation
- C) Improper disc brake pad installation
- D) Air in the lines

Answer: <https://biology-forums.com/index.php?topic=399719>

Question 2443

The maximum allowable alternating current (AC) in amperes that is being sent to the battery from the alternator is _____.

- A) 3 to 4 A
- B) 10% of the rated output of the AC Generator
- C) 0.04 A
- D) 1 to 3 A

Answer: <https://biology-forums.com/index.php?topic=398654>

Question 2444

What is the most abundant element on earth?

- A) Hydrogen
- B) Water
- C) Nitrogen
- D) Oxygen

Answer: <https://biology-forums.com/index.php?topic=399471>

Question 2445

All of the following are methods of mechanical cleaning EXCEPT _____.

- A) Chemical solvents
- B) Abrasive blasting
- C) Brushing
- D) Scraping

Answer: <https://biology-forums.com/index.php?topic=398076>

Question 2446

If the bell housing is not properly torqued to the engine block, _____.

- A) The crankshaft will crack
- B) The rear cylinder can be distorted (become out-of-round)
- C) The bell housing will distort
- D) The engine block will crack

Answer: <https://biology-forums.com/index.php?topic=398251>

Question 2447

Technician A says that the lower the Bin number is, the cleaner. Technician B says that SULEV has cleaner standards than ULEV. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397790>

Question 2448

Technician A says that full frame vehicles combine the body of the vehicle with the frame structure. Technician B says that unibody vehicles combine the body of the vehicle with the frame structure. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397354>

Question 2449

Technician A says that the front toe determines the thrust angle. Technician B says that the rear toe angle determines the thrust angle. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400150>

Question 2450

Normal operating temperature is reached when _____.

- A) The radiator cap releases coolant into the overflow
- B) The upper radiator hose is hot and pressurized
- C) The cooling fan has cycled at least once (if equipped)
- D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=398253>

Question 2451

All safety glasses should meet standards set by _____.

- A) ASE B) DOT C) SAE D) ANSI

Answer: <https://biology-forums.com/index.php?topic=397489>

Question 2452

If the exhaust valve opens at 57° before BDC (before dead center) and closes at 29° after TDC (top dead center), what is the exhaust valve duration in degrees?

- A) 86 B) 237 C) 266 D) 209

Answer: <https://biology-forums.com/index.php?topic=398129>

Question 2453

Technician A says that steering ball socket joints do not need lubrication. Technician B says that its a good idea to lubricate steering stops. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400077>

Question 2454

To provide the driver with a sense of "feel" during braking, vacuum boosters use a _____.

- A) Reaction disc B) Vacuum diverter C) Pressure restrictor D) Diaphragm spacer

Answer: <https://biology-forums.com/index.php?topic=399778>

Question 2455

Two technicians are discussing magnetic-type wheel speed sensors. Technician A says that wheel speed sensors are magnetic. Technician B says that the toothed sensor ring is magnetic. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399810>

Question 2456

Proper care of shop equipment includes _____.

- A) Tuning up every 6 months B) Keeping equipment clean
C) Keeping equipment lubricated D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=397620>

Question 2457

Technician A says that the pitman arm is connected to the steering gear. Technician B says that an idler arm is used with all rack and pinion steering linkages. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400072>

Question 2458

Why are some fuel rails rectangular in shape?

- A) Increases the speed of the fuel through the fuel rail B) Increases fuel pressure
C) Reduces noise D) Helps keep air out of the injectors

Answer: <https://biology-forums.com/index.php?topic=399167>

Question 2459

A typical radar cruise control system uses _____.

- A) Long-range radar (LRR)
B) Electronic throttle control system to control vehicle speed
C) Short-range radar (SRR)
D) All of these

Answer: <https://biology-forums.com/index.php?topic=398731>

Question 2460

Metric thread pitch is measured in _____.

A) Inches B) Millimeters C) Centimeters D) None of these

Answer: <https://biology-forums.com/index.php?topic=397562>

Question 2461

What is the proper tightening sequence for lug nuts?

- A) Star (criss-cross) pattern B) Counterclockwise rotation
C) Clockwise rotation D) None of these

Answer: <https://biology-forums.com/index.php?topic=399917>

Question 2462

Technician A says that the only valve guide repair option for integral valve guides is to use oversize-stem valves. Technician B says that valve guides should be checked for wear using a ball gauge or a dial indicator. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398092>

Question 2463

Which is not part of the diagnostic process for FWD CV-joint problems?

- A) Inspect the boot for cracks tears
B) Test drive including variable CV-joint operating angles
C) Test drive including variable throttle changes
D) All of these are part of the diagnostic process

Answer: <https://biology-forums.com/index.php?topic=400278>

Question 2464

What was the name of the first capacitance device?

- A) Battery B) Leyden jar C) Capacitor D) None of these

Answer: <https://biology-forums.com/index.php?topic=398479>

Question 2465

To lower and narrow a valve seat that has been cut at a 45-degree angle, use a cutter or stone of what angle?

- A) 60 degrees B) 15 degrees C) 45 degrees D) 30 degrees

Answer: <https://biology-forums.com/index.php?topic=398103>

Question 2466

Which part is splined to the clutch disc?

- A) Countershaft (lay shaft) B) Main shaft
C) Main gear (input shaft) D) Cluster shaft

Answer: <https://biology-forums.com/index.php?topic=400208>

Question 2467

A flex-fuel vehicle uses the PCM to make adjustments to the engine according to the percentage of ethanol in the fuel. The PCM must adjust which engine settings?

- A) Ignition timing B) Quantity of fuel delivered
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398929>

Question 2468

What is the purpose an intercooler?

- A) To cool the exhaust before it enters the turbocharger B) To cool the engine oil on a turbocharged engine
C) To reduce the temperature of the air entering engine D) To cool the turbocharger

Answer: <https://biology-forums.com/index.php?topic=397988>

Question 2469

An open circuit _____.

- A) May be caused by a blown fuse B) May be caused by high resistance
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398315>

Question 2470

Cup expanders are used in some wheel cylinders to _____.

A) Allow for wear on the cylinder walls
B) Hold the lips of the cups against the cylinder walls
C) Allow for the expansion of the fluid as the temperature increases
D) Help the cups seal against high pressure

Answer: <https://biology-forums.com/index.php?topic=399646>

Question 2471

Technician A says that primary windings should have higher resistance. Technician B says that secondary windings should have higher resistance. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399013>

Question 2472

The higher the resistance of a load in a series circuit, the _____ the voltage drop across that load.

A) Equal B) More C) Less D) None of these

Answer: <https://biology-forums.com/index.php?topic=398345>

Question 2473

Batteries should not be tipped to more than a _____ angle.

A) 45 degree B) 5 degree C) 60 degree D) None of these

Answer: <https://biology-forums.com/index.php?topic=397512>

Question 2474

Add 0.102 inch and 0.080 inch. The answer is _____.

A) 0.1820 inch B) 0.8200 inch C) 0.1082 inch D) 0.0082 inch

Answer: <https://biology-forums.com/index.php?topic=397728>

Question 2475

Two technicians are discussing automatic transmission/transaxle oil pumps. Technician A says that a vane-type pump is a positive displacement pump. Technician B says that the pump is driven by the torque converter. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400341>

Question 2476

An ATC system has the ability to automatically _____.

A) change the function door setting B) adjust the blower speed
C) move the temperature-blend door D) All of these

Answer: <https://biology-forums.com/index.php?topic=398842>

Question 2477

Which component is NOT part of the chassis system?

A) Brakes B) Frame C) Electrical system D) Suspension

Answer: <https://biology-forums.com/index.php?topic=397340>

Question 2478

Technician A says that the cooling system should be tested for leaks using a pressure-operated pressure pump. Technician B says that the freezing and boiling point of the coolant can be tested using a thermometer. Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397916>

Question 2479

What is the substance used in a vapor canister to absorb volatile organic compounds?

A) Organic absorber B) Pleated paper C) Desiccant D) Carbon

Answer: <https://biology-forums.com/index.php?topic=399280>

Question 2480

Technician A says that a thorough visual inspection should be performed on all ignition components when diagnosing an engine performance problem. Technician B says that platinum spark plugs can be regapped after use in an engine. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399001>

Question 2481

Experts recommend that technicians attend how much refresher training each year?

- A) 20 hours B) 8 hours C) 40 hours D) None of these

Answer: <https://biology-forums.com/index.php?topic=397486>

Question 2482

Technician A says some front 4WD hubs must be manually locked and unlocked. Technician B says some front 4WD hubs can be automatically locked and unlocked. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400316>

Question 2483

Which type of vehicles most often do not use metering valves?

- A) Rear-wheel drive B) All-wheel drive C) Four-wheel drive D) Front-wheel drive

Answer: <https://biology-forums.com/index.php?topic=399555>

Question 2484

Air in the brake hydraulic system can cause all EXCEPT _____.

- A) Hard brake pedal
B) Lower than normal brake pedal
C) Spongy brake pedal
D) May require the driver to "pump up" the brakes before they will stop the vehicle

Answer: <https://biology-forums.com/index.php?topic=399600>

Question 2485

Wheel lug nuts should be tightened _____.

- A) By hand, plus 1/4 turn B) By hand
C) With an air impact wrench D) With a torque wrench

Answer: <https://biology-forums.com/index.php?topic=399857>

Question 2486

Pressure bleeding requires _____.

- A) No special tools or adapters B) A special adapter to fit the master cylinder
C) Only two technicians D) A special adapter to fit the wheel cylinders

Answer: <https://biology-forums.com/index.php?topic=399610>

Question 2487

How much compressed natural gas (CNG) does it require to achieve the energy of one gallon of gasoline?

- A) 130 cubic feet B) 91 cubic feet C) 122 cubic feet D) 105 cubic feet

Answer: <https://biology-forums.com/index.php?topic=398917>

Question 2488

A shorted circuit _____.

- A) Could include an open circuit B) Always causes the fuse to blow
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398317>

Question 2489

Work describes the movement of an object when force is applied?

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=397707>

Question 2490

An oscilloscope display is called a _____.

- A) Graticule B) Grid C) Box D) Division

Answer: <https://biology-forums.com/index.php?topic=398388>

Question 2491

Two technicians are discussing synchronizer rings. Technician A says that they equalize the speeds of the synchronizer assembly and the speed gear being engaged. Technician B says they block the synchronizer sleeve briefly during a shift. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400218>

Question 2492

Conductors in a capacitance device are separated by _____.

- A) Conductors B) A vacuum C) Insulators D) None of these

Answer: <https://biology-forums.com/index.php?topic=398482>

Question 2493

Technician A says that trailing arms include any arm where the supported member trails the arm. Technician B says that trailing arms may also be called control arms on some vehicles. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399994>

Question 2494

What diagnostic trouble code (DTC) could be set if the thermostat is defective?

- A) P0171 B) P0300 C) P0128 D) P0440

Answer: <https://biology-forums.com/index.php?topic=397908>

Question 2495

A steel or copper wire used in a head gasket around the cylinder is called _____.

- A) Armor B) Fire ring C) Ridge block D) Either A or B

Answer: <https://biology-forums.com/index.php?topic=398201>

Question 2496

Rear brakes do less work during hard braking than the front brakes because _____.

- A) The rear brakes are larger B) The vehicle weight transfers forward
C) The rear tires have less traction D) Both B and C are correct

Answer: <https://biology-forums.com/index.php?topic=399515>

Question 2497

Which of these uses a movable core to act as an electric switch?

- A) Transistor B) Relay C) Solenoid D) None of these

Answer: <https://biology-forums.com/index.php?topic=398504>

Question 2498

What type of sensor is used as a height sensor on vehicles equipped with an electronically controlled suspension?

- A) Photo cell B) Potentiometer C) Hall-effect D) All of the above

Answer: <https://biology-forums.com/index.php?topic=400010>

Question 2499

The following statements are all correct EXCEPT _____.

- A) Used tires produce a heavy smoke when burned.
B) Used tires are difficult to dispose of in a landfill because they tend to rise to the surface.
C) Used tires can be breeding grounds for mosquitoes that carry disease.
D) All of the statements are correct

Answer: <https://biology-forums.com/index.php?topic=397543>

Question 2500

A twisted pair circuit has wire with at least _____ turns per foot.

- A) 12 B) 24 C) 5 D) 9

Answer: <https://biology-forums.com/index.php?topic=398443>

Question 2501

In an OBD II system, when all enabling criteria for a given diagnostic is met, it's considered which of these terms?

- A) A trip B) A warmed-up engine
C) A tuned engine D) A freeze frame

Answer: <https://biology-forums.com/index.php?topic=399373>

Question 2502

If one branch of a parallel circuit loses continuity, the other branches will still each receive source voltage and ground.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=398356>

Question 2503

Flat rate pay means _____.

- A) The technician is paid overtime
B) The technician is paid according to the job, not the number of hours worked
C) The same pay every week
D) The same number of hours every week

Answer: <https://biology-forums.com/index.php?topic=397435>

Question 2504

Kinetic energy of a moving object increases at a rate that is _____.

- A) The square of its speed B) Half its speed
C) Equal to its speed D) None of these

Answer: <https://biology-forums.com/index.php?topic=397714>

Question 2505

Professionalism includes which factor?

- A) Becoming a teammate with your co workers B) Apologizing if you are wrong
C) Keeping your word D) All of these

Answer: <https://biology-forums.com/index.php?topic=397428>

Question 2506

What term describes the weight of the vehicle with all fluids filled but no passengers or cargo?

- A) Model weight B) Rated weight C) GVW D) Curb weight

Answer: <https://biology-forums.com/index.php?topic=399936>

Question 2507

Before lowering the vehicle, what should the technician do?

- A) Raise the vehicle enough to release the safety latch
B) Be sure no one will be walking under or near the vehicle
C) Be sure nothing is underneath the vehicle
D) All of these

Answer: <https://biology-forums.com/index.php?topic=397647>

Question 2508

Technician A says to carefully install all accessories when installing a replacement engine. Technician B says that when installing the transmission and other components on the engine block, be sure to use a box wrench to tighten all fasteners to factory specifications. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398261>

Question 2509

What fuel system component is used in a vehicle equipped with a diesel engine that is not usually used on the same vehicle when it is equipped with a gasoline engine?

- A) Fuel supply line B) Water-fuel separator
C) Fuel return line D) Fuel filter

Answer: <https://biology-forums.com/index.php?topic=397861>

Question 2510

Terminal 16 of the OBD-II data link connector is used for what?

- A) 12 volts positive B) Module (signal ground)
C) Chassis ground D) Manufacturer's discretion

Answer: <https://biology-forums.com/index.php?topic=398537>

Question 2511

The fuel injectors used on a gasoline direct injection system are pulsed on using what voltage?

- A) 100 to 110 V B) 12 to 14 V C) 200 to 220 V D) 50 to 90 V

Answer: <https://biology-forums.com/index.php?topic=399206>

Question 2512

Technician A says that the apply and hold units are usually the same for first gear when the gear selector is in drive or manual first. Technician B says that a defective vacuum modulator could cause the automatic transmission to delay shifting until a higher-than-normal speed is achieved. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400361>

Question 2513

The "W" in SAE 5W-20 means _____.

- A) Winter B) With C) Weight D) Without

Answer: <https://biology-forums.com/index.php?topic=397926>

Question 2514

What is the most powerful phrase in human relations, according to the text?

- A) Mr./Mrs. B) Thank you C) Can I assist you? D) None of these

Answer: <https://biology-forums.com/index.php?topic=397443>

Question 2515

The OnStar system operates by using GPS data and _____.

- A) Cellular telephone service B) Satellite telephone data
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398707>

Question 2516

Which job would be concerned with working hours and pay?

- A) Service advisor B) Shop foreman C) Service technician D) Service manager

Answer: <https://biology-forums.com/index.php?topic=397377>

Question 2517

Technician A says that wheel cylinder dust boots keep dust and moisture out of the cylinder bore. Technician B says that it is normal for dust boots to allow a little seepage of fluid. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399669>

Question 2518

Typical maximum rotor thickness variation (parallelism) specifications are _____.

- A) 0.0003 to 0.0005 in. (0.008 to 0.013 mm) B) 0.300 to 0.500 in. (8.0 to 13 mm)
C) 0.030 to 0.050 in. (0.8 to 1.3 mm) D) 0.003 to 0.005 in. (0.08 to 0.13 mm)

Answer: <https://biology-forums.com/index.php?topic=399756>

Question 2519

Which part of a synchronizer is splined to a shaft?

- A) Synchronizer sleeve B) Synchronizer blocker ring
C) Speed gear D) Hub

Answer: <https://biology-forums.com/index.php?topic=400213>

Question 2520

The amperage draw of an electric fuel pump is higher than specified. All of the following are possible causes EXCEPT _____.

- A) Defective fuel pump B) Restriction in the fuel line
C) Clogged fuel filter D) Corroded electrical connections at the pump motor

Answer: <https://biology-forums.com/index.php?topic=399154>

Question 2521

Which vehicles use a transfer case?

- A) 4WD B) RWD C) FWD D) None of these

Answer: <https://biology-forums.com/index.php?topic=397366>

Question 2522

An ignition misfire or fuel mixture problem is an example of what type of DTC?

- A) Type A B) Type D C) Type C D) Type B

Answer: <https://biology-forums.com/index.php?topic=399358>

Question 2523

Technician A says that volumetric efficiency is a comparison of the actual volume of air-fuel mixture drawn into the engine to the theoretical minimum volume that can be drawn into the cylinder. Technician B says that a supercharger consumes some engine power as it forces a greater amount of air into the cylinders for more power. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397992>

Question 2524

Technician A says that brake drums should be labeled "left" and "right" before being removed from the vehicle so that they can be reinstalled to the same location. Technician B says that the holddown pins may have to be cut off to remove a worn brake drum. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399667>

Question 2525

Service information states SAE 30 engine oil should be used on the threads of the head bolts, before installation and torquing. Technician A says that SAE 5W-30 will work. Technician B says that SAE 10W-30 will work. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398218>

Question 2526

Which organization developed guidelines for OBD II?

- A) EPA and CARB B) EPA C) CARB D) DOT and EPA

Answer: <https://biology-forums.com/index.php?topic=399375>

Question 2527

Proper tire inflation pressure specification is found _____.

- A) On the driver's door or post B) In the owner's manual
C) On the sidewall of the tire D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=399902>

Question 2528

The brake assist system (BAS) is activated _____.

- A) Whenever the brakes are applied B) Only in the rain
C) On the rear brakes D) During a panic stop

Answer: <https://biology-forums.com/index.php?topic=399787>

Question 2529

Excessive positive camber will cause tire wear _____.

- A) In the middle of the tire B) On the inside shoulder of the tire
C) On the outside shoulder of the tire D) On both tire edges

Answer: <https://biology-forums.com/index.php?topic=400134>

Question 2530

A capacitor used for spike protection will normally be placed in _____ to the load or circuit.

- A) Parallel with a resistor in series B) Either series or parallel
C) Series D) Parallel

Answer: <https://biology-forums.com/index.php?topic=398477>

Question 2531

The higher the cetane rating, the _____.

- A) Easier the engine starts when cold B) Easier the engine starts when hot
C) More power the engine produces D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=398941>

Question 2532

The highest amount of resistance that can be read by the meter set to the 2k ohm scale is _____.

- A) 20000000 ohms B) 200 ohms C) 2000 ohms D) 200k ohms

Answer: <https://biology-forums.com/index.php?topic=398367>

Question 2533

Which statement is true regarding the flow control valve on a power steering pump?

- A) It uses a variable orifice to control pressure B) It is located at the pump outlet
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400111>

Question 2534

A transistor is controlled by the polarity and current at _____.

- A) The collector B) The emitter C) The base D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=398510>

Question 2535

A PTC circuit protector prevents excessive current flow in a circuit by _____.

- A) Burning open B) Grounding the current
C) Changing to a very high resistance D) Opening a set of contacts

Answer: <https://biology-forums.com/index.php?topic=398451>

Question 2536

One thousandth is expressed as how many places to the right of the decimal?

- A) Two B) Four C) Three D) None of these

Answer: <https://biology-forums.com/index.php?topic=397735>

Question 2537

On a variable ratio sector shaft, the center gear tooth is _____ than the side gear teeth.

- A) Larger B) Smaller

Answer: <https://biology-forums.com/index.php?topic=400061>

Question 2538

All of these are correct EXCEPT _____.

- A) Engines produce lower horsepower at higher altitude.
B) Engines produce higher horsepower at higher altitude.
C) Forced induction reduces the effect of altitude on engine power.
D) Air is less dense and contains less oxygen at higher altitude.

Answer: <https://biology-forums.com/index.php?topic=397846>

Question 2539

Shorter runners in a port fuel injected engine provide which of these?

- A) Increased high-RPM power B) Minimum low-RPM power
C) Increased low-RPM power D) Minimum high-RPM power

Answer: <https://biology-forums.com/index.php?topic=397981>

Question 2540

On most vehicles, the anti-rattle spring (strut spring) should be installed on the parking brake strut toward the _____ of the vehicle.

- A) Front B) Rear

Answer: <https://biology-forums.com/index.php?topic=399732>

Question 2541

Which of these is a high school program designed to train aspiring automotive technicians?

- A) ASE B) COBRA C) AYES D) NATEF

Answer: <https://biology-forums.com/index.php?topic=397389>

Question 2542

What input(s) do/does the Magnasteer system use to determine the amount of power steering assist needed?

- A) Mass airflow sensor B) Wheel speed sensor C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400113>

Question 2543

One of the deductions from a pay check is for Social Security. This item is usually shown on the pay stub as _____.

- A) SSA B) US government deduction

- C) Social Security D) FICA

Answer: <https://biology-forums.com/index.php?topic=397404>

Question 2544

Reformulated gasoline contains at least _____ percent oxygen by weight.

- A) 2 B) 1 C) Zero D) 10

Answer: <https://biology-forums.com/index.php?topic=398908>

Question 2545

Which sensor is used by the ESC controller to determine the driver's intended direction?

- A) Lateral acceleration sensor B) Steering wheel (handwheel) position sensor

- C) Yaw sensor D) Vehicle speed (VS) sensor

Answer: <https://biology-forums.com/index.php?topic=399833>

Question 2546

A vehicle failed an emission test due to high carbon monoxide and hydrocarbons in the exhaust gas. What could be the cause?

- A) Overfilling the fuel tank B) Saturated EVAP charcoal canister

- C) Either A or B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399292>

Question 2547

Disc brakes use replaceable friction material called _____.

- A) Core B) Web C) Pads D) Linings

Answer: <https://biology-forums.com/index.php?topic=399489>

Question 2548

Technician A says that backspacing is the same as offset. Technician B says that backspacing is the distance between the back rim edge and the wheel center section. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399863>

Question 2549

Which product requires heat to remove?

- A) RTV B) Blue thread locker C) Red thread locker D) Antisieze

Answer: <https://biology-forums.com/index.php?topic=398207>

Question 2550

Technician A says that vehicle manufacturers use break away steering column mounting brackets to protect the driver in an accident. Technician B says that vehicle manufacturers are required to use collapsible shafts in the steering column. Which Technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400056>

Question 2551

The pressure in a gasoline engine combustion chamber can be as high as _____.

A) 1000 PSI B) 400° C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398216>

Question 2552

When servicing an air bag, which of these is the first step taken?

A) Take resistance measurements at all electrical connectors
B) Disconnect the battery negative cable
C) Disconnect the impact sensors
D) Disconnect the clockspring electrical connector

Answer: <https://biology-forums.com/index.php?topic=398761>

Question 2553

The circuit to the airbag inflation module is connected from the steering column to the steering wheel through which component?

A) Magnetic field sensor B) Slip ring and carbon brushes
C) Clockspring (coil) D) Hall-effect switch

Answer: <https://biology-forums.com/index.php?topic=400036>

Question 2554

To retrieve stored diagnostic trouble codes, a technician needs a(n) _____.

A) Paper clip B) Desktop computer
C) Scan tool D) Wireless connection to an electronic tester

Answer: <https://biology-forums.com/index.php?topic=397345>

Question 2555

Which type of diesel injection produces less noise?

A) Direct injection B) Indirect injection (IDI)
C) Distributor injection D) Common rail

Answer: <https://biology-forums.com/index.php?topic=397858>

Question 2556

The thrust bearing surface is located on one of the main bearings to control thrust loads caused by _____.

A) Lugging the engine B) Torque converter or clutch release forces
C) Rapid deceleration forces D) Both A and C

Answer: <https://biology-forums.com/index.php?topic=398180>

Question 2557

Technician A says that it is recommended that the vehicle be driven less than 50 mph for the first 50 miles to allow the tire to adhere to the wheel. Technician B says that sudden hard acceleration with newly mounted tires can cause the tire to change position on the wheel. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399915>

Question 2558

Four wheel drive systems are covered under which ASE content area?

A) Manual drivetrains B) Suspension systems
C) Automatic transmissions D) None of these

Answer: <https://biology-forums.com/index.php?topic=397362>

Question 2559

A thermostat can fail in which way?

A) Stuck closed B) Stuck partially open C) Stuck open D) Any of the above

Answer: <https://biology-forums.com/index.php?topic=398021>

Question 2560

Technician A says that the cylinder should be bored and/or honed to match the size of the pistons to be used. Technician B says that bolt holes should be chamfered and cleaned with a thread chaser before assembly. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398167>

Question 2561

Brake fluid boiling point can be measured using _____.

- A) A candy thermometer B) A hygrometer
C) A Styrofoam cup D) An electronic tester

Answer: <https://biology-forums.com/index.php?topic=399586>

Question 2562

When replacing U-joints, a special tool must be used to press onto both sides of the joint to shear the plastic retainer.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=400266>

Question 2563

The pulse generator _____.

- A) Signals the computer that fires the spark plug directly
B) Signals the electronic control unit (module)
C) Is used as a tachometer reference signal by the computer and has no other function
D) Fires the spark plug directly

Answer: <https://biology-forums.com/index.php?topic=398964>

Question 2564

Technician A says that a road test should never be performed before service, for safety reasons. Technician B says that the purpose of any diagnosis is to eliminate known good components. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399966>

Question 2565

Excessive toe-in will cause tire wear _____.

- A) In the middle of the tire B) On both tire edges
C) On the outside shoulder of the tire D) On the inside shoulder of the tire

Answer: <https://biology-forums.com/index.php?topic=400133>

Question 2566

Which compound planetary gaset is commonly used in six speed transmissions?

- A) Ravigneaux gaset B) Lapelletier gaset C) Simpson gaset D) Simple gaset

Answer: <https://biology-forums.com/index.php?topic=400327>

Question 2567

Technician A says that all orifice tubes on all vehicles use the same size orifice size. Technician B says that orifice tubes vary the orifice size by application. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398873>

Question 2568

When working with hand tools, always _____.

- A) Pull the wrench, don't push B) Push the wrench, don't pull it toward you

Answer: <https://biology-forums.com/index.php?topic=397581>

Question 2569

Technician A says FMVSS 116 lists a brake fluid standard ONLY for temperature compatibility. Technician B says FMVSS 116 lists a brake fluid standard for viscosity AND boiling point. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399582>

Question 2570

Which of these is a type of electric motor designed to rotate in small increments based on the signal from a vehicle computer?

- A) Stepper motor B) Stopper motor C) Compound motor D) Shunt control motor

Answer: <https://biology-forums.com/index.php?topic=398699>

Question 2571

Where are shorting bars used?

- A) In the crash sensors B) In the airbag controller
C) At the connectors for airbags D) In pretensioners

Answer: <https://biology-forums.com/index.php?topic=398753>

Question 2572

What can be used to cover the jaws of a vise to help protect the object being held?

- A) Copper B) Aluminum C) Wood D) All of these

Answer: <https://biology-forums.com/index.php?topic=397614>

Question 2573

If 12 volts are being applied to a resistance of 3 ohms, _____ amperes will flow.

- A) 4 B) 12 C) 3 D) 36

Answer: <https://biology-forums.com/index.php?topic=398304>

Question 2574

Two technicians are discussing bleeding air from the brake hydraulic system. Technician A says to depress the brake pedal slowly and not to the floor to prevent possible seal damage inside the master cylinder. Technician B says to wait 15 seconds between strokes of the brake pedal. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399601>

Question 2575

A quick take-up master cylinder is required when what type of caliper design is used on a vehicle?

- A) Two-piston B) Low-drag C) Sliding D) Fixed

Answer: <https://biology-forums.com/index.php?topic=399685>

Question 2576

Battery electrolyte is a mixture of water and _____.

- A) Sulfuric acid B) Lead sulfate C) Lead peroxide D) Sulfur Dioxide

Answer: <https://biology-forums.com/index.php?topic=398558>

Question 2577

A cylinder has been measured as having 0.005" of taper. What is the calculated oversize piston size?

Answer: <https://biology-forums.com/index.php?topic=398175>

Question 2578

Technician A says that evaporator leaks can be detected by installing dye into the system and looking for yellowish-green dye stains. Technician B says that a leak at the evaporator can be detected by removing the blower motor resistor pack and inserting an electronic leak detector probe into the air stream. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398849>

Question 2579

Which antilock component creates current frequencies that change with wheel rotational speed?

- A) Safety circuitry B) Modulator assembly
C) Electronic control unit D) Wheel speed sensors

Answer: <https://biology-forums.com/index.php?topic=399804>

Question 2580

Technician A says that fuel tank accident and rollover protection devices include check valves and inertia switches. Technician B says that most fuel lines are made of ABS plastic. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399159>

Question 2581

What is the first step of the diagnosis process?

- A) Retrieve the diagnostic trouble codes B) Look at scan tool data
C) Check for technical service bulletins D) Verify the problem

Answer: <https://biology-forums.com/index.php?topic=399388>

Question 2582

List the advantages and disadvantages of nonparametric tests.

Answer: <https://biology-forums.com/index.php?topic=408269>

Question 2583

Which statement is true about fuse ratings?

- A) The fuse rating should be less than the maximum current for the circuit
B) The fuse rating should be higher than the normal current for the circuit
C) 80% of the fuse rating should equal the current in the circuit
D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=398409>

Question 2584

Technician A says that a defective solenoid can cause a starter whine. Technician B says that a defective starter drive can cause a starter whining noise. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398593>

Question 2585

According to the text, hybrid vehicle high voltage batteries can have voltages as high as _____.

- A) 300 volts B) 14 volts C) 36 volts D) 144 volts

Answer: <https://biology-forums.com/index.php?topic=398590>

Question 2586

The following statements are all correct EXCEPT _____.

- A) Brake fluid may be recycled.
B) Most brake fluid is made from polyglycol.
C) Unused brake fluid is considered a hazardous waste.
D) Brake fluid should not be mixed with engine oil for disposal unless otherwise directed.

Answer: <https://biology-forums.com/index.php?topic=397536>

Question 2587

Two technicians are discussing the metering valve in a front-disc, rear-drum braking system. Technician A says that the metering valve delays application of the front brakes. Technician B says that the metering valve delays the application of the rear brakes. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399559>

Question 2588

Which of these may be used to restore damaged threads on a bolt?

- A) Die B) Tap C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397569>

Question 2589

In what year was electrical capacitance discovered?

- A) 1908 B) 1846 C) 1745 D) None of these

Answer: <https://biology-forums.com/index.php?topic=398478>

Question 2590

As additional branches are added to a parallel circuit, total circuit resistance _____.

- A) Increases B) Remains the same C) Decreases D) None of these

Answer: <https://biology-forums.com/index.php?topic=398358>

Question 2591

What type of electrical current does a fuel cell generate?

- A) Direct current B) Alternating current C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399479>

Question 2592

Technician A says that front shock replacement on most vehicles requires a special spring compressor. Technician B says that front shock absorbers can be replaced with the weight of the vehicle on the wheels. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399979>

Question 2593

Which of these facts is correct about a delta-wound stator?

- A) The windings always form a series circuit B) The circuit diagram looks like a parallelogram
C) No ground connection D) No neutral junction

Answer: <https://biology-forums.com/index.php?topic=398645>

Question 2594

What does the post, or downstream, oxygen sensor (HO2S) measure?

- A) Amount of oxygen in front of the catalytic converter B) Amount of H₂O in front of the catalytic converter
C) Amount of H₂O behind the catalytic converter D) Amount of oxygen behind the catalytic converter

Answer: <https://biology-forums.com/index.php?topic=399137>

Question 2595

Uneven disc brake pad wear is being discussed. Technician A says the caliper piston may be stuck. Technician B says the caliper may be stuck on the slides and unable to "float." Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399707>

Question 2596

In an electronically controlled cruise control system, what component is used to monitor vehicle speed?

- A) Generator speed sensor B) Engine speed sensor
C) Vehicle speed sensor D) RPM sensor

Answer: <https://biology-forums.com/index.php?topic=398744>

Question 2597

A low O₂S voltage could be due to _____.

- A) A rich exhaust B) A lean exhaust
C) A defective spark plug wire D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=399121>

Question 2598

A P0133 DTC is being discussed. Technician A says that a defective heater circuit could be the cause. Technician B says that a contaminated sensor could be the cause. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399128>

Question 2599

Adding up to 10% ethanol to gasoline can also increase the fuel's _____.

- A) color B) temperature C) volatility D) A/F ratio

Answer: <https://biology-forums.com/index.php?topic=398906>

Question 2600

When air is pumped into the cylinder, the combustion chamber receives an increase of air pressure known as _____ and is measured in pounds per square inch (psi), atmospheres (ATM), or bar.

- A) Boost B) Density C) Horsepower D) Waste

Answer: <https://biology-forums.com/index.php?topic=397999>

Question 2601

Which section of a service manual includes on-board diagnostic information?

- A) Electrical systems B) Engine performance C) Engine repair D) None of these

Answer: <https://biology-forums.com/index.php?topic=397779>

Question 2602

Which of the following actions will deactivate cruise control operation?

- A) Driving up a steep hill B) Releasing accelerator pedal
C) Applying the brakes D) Applying accelerator pedal

Answer: <https://biology-forums.com/index.php?topic=398743>

Question 2603

A gasoline with a high driveability index is _____.

- A) Less volatile than gasoline with a lower DI B) DI does not describe volatility
C) More volatile than gasoline with a lower DI D) None of these

Answer: <https://biology-forums.com/index.php?topic=398898>

Question 2604

What mode does a direct pressure sensor enter when the vehicle is stopped?

- A) Sleep mode B) Alert mode C) Active mode D) Storage mode

Answer: <https://biology-forums.com/index.php?topic=399881>

Question 2605

Two technicians are discussing hard spots in brake drums. Technician A says the drum should be replaced. Technician B says the hard spots are caused by using riveted rather than bonded brake shoes. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399757>

Question 2606

What is the recommended location to store a HEV ignition key during service?

- A) leave the key in the ignition B) In the vehicle glove box
C) Lock box D) Top of the technician's tool box

Answer: <https://biology-forums.com/index.php?topic=399456>

Question 2607

Technician A says that the research octane number is higher than the motor octane number. Technician B says that the octane rating posted on fuel pumps is an average of the two ratings. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398889>

Question 2608

Who might be good references?

- A) Family friend B) Pastor C) Teacher D) All of these

Answer: <https://biology-forums.com/index.php?topic=397417>

Question 2609

Front and rear drive shaft U-joint working angles should be within _____ degrees of each other.

- A) 3.0 B) 1.0 C) 4.0 D) 0.5

Answer: <https://biology-forums.com/index.php?topic=400261>

Question 2610

All vehicles sold in the United States must have a tire pressure monitoring system, starting with model year _____.

- A) 2006 B) 2010 C) 2008 D) 2004

Answer: <https://biology-forums.com/index.php?topic=399887>

Question 2611

Technician A says the gear reduction occurs when the drive gear turns faster than the driven gear. Technician B says that overdrive occurs when the driven gear turns faster than the drive gear. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400338>

Question 2612

On a late model vehicle, the brake light switch sends a signal to the _____.

- A) Instrument cluster B) Body control module (BCM)
C) Either A or B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399568>

Question 2613

Technician A says that a parking brake equalizer may consist of a cable guide attached to a threaded rod. Technician B says that a brake equalizer balances the force from the parking brake control. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399744>

Question 2614

Vehicles with a bin number of 3 have _____ than vehicles with a bin number of 1.

- A) More emissions B) The same emissions C) Less emissions D) None of these

Answer: <https://biology-forums.com/index.php?topic=397800>

Question 2615

Technician A says that the primary seal of the secondary piston is leaking if fluid is seen leaking from the rear of the master cylinder. Technician B says that air in the brake lines will cause a low brake pedal. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399538>

Question 2616

A transmission is lubricated _____.

- A) By gear oil that is thrown around the case by gear rotation
B) To remove excess heat from the gears
C) Both A and B
D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400220>

Question 2617

When assembling the pump, what is the alignment band used for?

- A) To help install the outer O-ring. B) To align the pump halves while torquing the bolts.
C) To help hold the pump while installing the seal. D) To guide the pump into the case.

Answer: <https://biology-forums.com/index.php?topic=400392>

Question 2618

What two conditions are likely to result in a significant F test statistic in a one-way ANOVA experiment?

Answer: <https://biology-forums.com/index.php?topic=408267>

Question 2619

About how much of the turning torque applied to a head bolt is lost to friction?

- A) 80% B) 20% C) 60% D) 40%

Answer: <https://biology-forums.com/index.php?topic=398217>

Question 2620

Some vehicles use an oil cooler the help maintain proper oil temperature. Oil temperature range should be _____.

A) 212°F to 300°F B) 100°F to 125°F C) 100°F to 150°F D) Above 300°F

Answer: <https://biology-forums.com/index.php?topic=397960>

Question 2621

Technician A says to keep the decimals aligned when adding or subtracting decimal numbers. Technician B says to keep the decimals aligned when multiplying or dividing decimal numbers. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397736>

Question 2622

Technician A says that a torque arm runs perpendicular the the driveshaft. Technician B says that a torque arm runs parallel to the driveshaft. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400005>

Question 2623

How much force is generally used to check idler arms?

A) 25 lbs. B) 5 lbs. C) 150 lbs. D) As much as possible

Answer: <https://biology-forums.com/index.php?topic=400079>

Question 2624

Technician A says that as axle shafts rotate in one direction to drive the wheels, the axle housing attempts to rotate in the opposite direction. Technician B says this is called torque steer. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400002>

Question 2625

A dent in an axle shaft can cause damage that may result in failure when engine torque is applied.

A) True B) False

Answer: <https://biology-forums.com/index.php?topic=400236>

Question 2626

Technician A says that module communications networks are used to reduce the number of wires in a vehicle. Technician B says that a communications network is used to share data from sensors, which can be used by many different modules. Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398528>

Question 2627

Two technicians are discussing brake fluid. Technician A says that brake fluid standards are determined by the Society of Automotive Engineers (SAE). Technician B says that brake fluid standards are determined by the Department of Transportation (DOT). Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399580>

Question 2628

Two technicians are discussing ABS wheel speed sensors. Technician A says that some ABS systems use a sensor located in the rear-axle pinion gear area. Technician B says that all ABS systems use a wheel speed sensor at each wheel. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399792>

Question 2629

An alternator diode is being tested using a DMM (digital multimeter) set to the diode check position. A good diode will read _____ if the leads are connected one way across the diode and _____ if the leads are reversed.

A) OL/OL B) 0.551 ohms/OL

C) 0.475 ohms/0.475 ohms D) 300 ohms/300 ohms

Answer: <https://biology-forums.com/index.php?topic=398660>

Question 2630

When looking at a solenoid with an oscilloscope, what event often follows applying or removing power from the coil windings?

A) Voltage drop B) Diode ripple C) Voltage spike D) Decreased resistance

Answer: <https://biology-forums.com/index.php?topic=399253>

Question 2631

A customer complains that every time the lights are turned on in the vehicle, the dash display dims. Which of these is the MOST likely cause which of these conditions?

- A) Normal behavior for LED (Light Emitting Diode) dash displays
- B) Normal behavior for VTF (Vacuum Tube Fluorescent) dash display
- C) Feedback problem from a short-to-voltage between headlights and dash display
- D) Poor ground in lighting circuit causing a voltage drop to dash lamps

Answer: <https://biology-forums.com/index.php?topic=398691>

Question 2632

Which component is NOT a safety requirement for steering column systems?

- A) Collapsible column B) Sector shaft
- C) Knee bolster D) All of these are correct

Answer: <https://biology-forums.com/index.php?topic=400050>

Question 2633

Evaporative emission control systems operate on low pressure measured in inches of water. One psi is equal to how many inches of water?

- A) 28 B) 18 C) 10 D) 1

Answer: <https://biology-forums.com/index.php?topic=399283>

Question 2634

Typical journal-to-bearing clearance is _____.

- A) 0.020 to 0.035 inch B) 0.00015 to 0.00018 inch
- C) 0.150 to 0.250 inch D) 0.0005 to 0.0025 inch

Answer: <https://biology-forums.com/index.php?topic=398183>

Question 2635

How many sensors must be triggered at the same time to cause an airbag deployment?

- A) Two B) One C) Three D) Four

Answer: <https://biology-forums.com/index.php?topic=398757>

Question 2636

Technician A says that a radio can receive AM signals, but not FM signals, if the antenna is defective. Technician B says that a good antenna should give a reading of about 500 ohms when tested with an ohmmeter between the center antenna wire and ground. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398770>

Question 2637

Technician A says that one disadvantage of disc brakes is noise. Technician B says that disc brakes are easier to equip with a parking brake mechanism than drum brakes. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399691>

Question 2638

Voltage supplied to a potentiometer may be called _____.

- A) Leading voltage B) Primary voltage C) Reference voltage D) None of these

Answer: <https://biology-forums.com/index.php?topic=398298>

Question 2639

The sum of the voltage drops in a series circuit equals the _____.

- A) Amperage B) Resistance C) Wattage D) Source voltage

Answer: <https://biology-forums.com/index.php?topic=398331>

Question 2640

A hybrid electric vehicle has a feature that could allow the engine to start and run without warning. This feature is called _____.

A) Idle stop B) False off C) Self-start D) Battery save

Answer: <https://biology-forums.com/index.php?topic=398035>

Question 2641

Two technicians are discussing a no-start condition. During cranking, a magnet held over the coil moves and the engine backfires at times. Technician A says that a bad pickup coil or CKP sensor is the most likely cause. Technician B says that an open coil primary is the most likely cause. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398999>

Question 2642

A normal reading when testing coolant for galvanic activity is _____.

A) 5 V or more B) More than .5 V C) Less than 200 mV D) At least .5 V

Answer: <https://biology-forums.com/index.php?topic=397900>

Question 2643

Technician A says that fuel cell vehicles may use an electric storage device. Technician B says that fuel cell vehicles that use a storage device to help power the vehicle are called fuel cell hybrid vehicles. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399485>

Question 2644

Which device illuminates a different color when connected to power or ground sides of a circuit?

A) Logic probe B) LED test light C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398371>

Question 2645

A vehicle's oil pressure warning light is on. Technician A says that the pressure sending unit should be replaced and the vehicle re-checked.

Technician B says that a mechanical oil pressure gauge should be used to check the oil pressure before replacing the sending unit. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398019>

Question 2646

The booster operation test determines if the booster is _____.

A) Creating brake application force B) Receiving adequate vacuum

C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399783>

Question 2647

The bearing grease most often specified is rated NLGI _____.

A) #2 B) #00 C) #1 D) #0

Answer: <https://biology-forums.com/index.php?topic=399617>

Question 2648

The greatest disadvantage of drum brakes is _____.

A) Brake fade B) Poor parking brake performance

C) Brake adjustment D) Lack of power assist action

Answer: <https://biology-forums.com/index.php?topic=399649>

Question 2649

Technician A says that any normal chemical can be used to clean aluminum parts or components. Technician B says that most chemical cleaners are strong soaps called caustic materials. Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398070>

Question 2650

Technician A says anti-vibration devices only need to be used when resurfacing drums. Technician B says composite brake rotors require special

adapters when mounted on a bench lathe for resurfacing. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399766>

Question 2651

The steel plates in a clutch pack are commonly called _____.

- A) Friction members B) Steels C) Reaction members D) Friction disks

Answer: <https://biology-forums.com/index.php?topic=400347>

Question 2652

A GDI system operating in stratified mode results in _____.

- A) Black smoke from the exhaust
B) A rich air-fuel mixture near the spark plug tip
C) The air-fuel mixture being evenly distributed in the combustion chamber
D) None of these

Answer: <https://biology-forums.com/index.php?topic=399214>

Question 2653

If a customer is not attentive during a conversation, what can be done to regain the customer's attention?

- A) Ask questions that require their attention B) Give the customer options for responses
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397445>

Question 2654

Two technicians are discussing the construction of a single piston caliper. Technician A says that the fluid is retained by a piston seal fitted in a groove machined in the piston. Technician B says that the piston is held in the caliper by a lock ring. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399693>

Question 2655

A creeper should be stored _____.

- A) Flat on the floor B) Upside down on the floor
C) Vertically D) Under a vehicle

Answer: <https://biology-forums.com/index.php?topic=397641>

Question 2656

Technician A says that a potentiometer returns a digital signal to the ECM. Technician B says that a potentiometer generally has a two terminal harness connected to it. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400023>

Question 2657

With the armature removed from the starter motor, the field coils should be tested for opens and grounds using which of these tools?

- A) Powered test light B) Ohmmeter C) Ammeter D) Either A or B

Answer: <https://biology-forums.com/index.php?topic=398628>

Question 2658

The forward bias voltage required for an LED is _____.

- A) 0.3 to .05 volt B) 4.5 to 5.1 volts C) 0.5 to 0.7 volt D) 1.5 to 2.2 volts

Answer: <https://biology-forums.com/index.php?topic=398514>

Question 2659

What should be installed and torqued to factory specifications before machining a block?

- A) Main bearing caps B) Front timing chain cover
C) Oil pan D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398157>

Question 2660

Two technicians are discussing electronic leveling systems. Technician A says that a weight should be placed in the vehicle as part of the diagnostic procedure. Technician B says that many ride height sensors are adjustable. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400020>

Question 2661

Two technicians are discussing bench bleeding a master cylinder. Technician A says that the front (nose end) of the master cylinder should be bled first. Technician B says that rear (brake pedal end) should be bled first. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399593>

Question 2662

Electronically controlled variable assist power steering systems vary the amount of boost by _____.

- A) Varying the pump output orifice size
B) Bypassing some of the fluid back into the reservoir
C) Speeding up or slowing down the power steering pump
D) Changing the flow of fluid through the steering gear

Answer: <https://biology-forums.com/index.php?topic=400096>

Question 2663

All of these are types of snap rings EXCEPT _____.

- A) Internal B) E-clip
C) External D) All of these are snap rings

Answer: <https://biology-forums.com/index.php?topic=397574>

Question 2664

The fuel pressure drops rapidly when the engine is turned off. Technician A says that one or more injectors could be leaking. Technician B says that a defective check valve in the fuel pump could be the cause. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399237>

Question 2665

Technician A says that some intake manifolds are plastic. Technician B says that some intake manifolds are constructed in two parts or sections: upper and lower. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397971>

Question 2666

Which of these statements is true about surface finish?

- A) Cast-iron surfaces should be smoother than aluminum surfaces
B) The rougher the surface, the higher the microinch finish measurement
C) A cylinder head should be much smoother than a crankshaft journal
D) The smoother the surface, the higher the microinch finish measurement

Answer: <https://biology-forums.com/index.php?topic=398089>

Question 2667

Technician A says that the data displayed on the dash can come from the engine computer. Technician B says that the entire instrument panel assembly may have to be replaced even if just one unit fails. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398695>

Question 2668

A smoothly operating engine depends on _____.

- A) High compression on most cylinders
B) Compression levels below 100 psi (700 kPa) on most cylinders
C) Equal compression between cylinders
D) Cylinder compression levels above 100 psi (700 kPa) and within 70 PSI (500kPa) of each other

Answer: <https://biology-forums.com/index.php?topic=398007>

Question 2669

Two technicians are discussing electric power steering (EPS) systems. Technician A says that some systems operate on 12 volts. Technician B says that some systems operate on 42 volts, such as on some hybrid electric vehicles. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400097>

Question 2670

The specific gravity of diesel fuel is measured in what units?

- A) API gravity B) Grade number C) Hydrometer units D) Cetane number

Answer: <https://biology-forums.com/index.php?topic=398932>

Question 2671

Technician A says that the fuel pump relay is usually controlled by the PCM. Technician B says that a TBI injector squirts fuel above the throttle plate. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399166>

Question 2672

Excessive corrosion on an electrical connector _____.

- A) Can cause a fuse to blow B) Can cause lights to be dim
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398329>

Question 2673

Because brake fluid is hygroscopic, it _____.

- A) Must lubricate pistons and cups to reduce wear B) Creates an odor if not flushed annually
C) Absorbs moisture D) All of the above

Answer: <https://biology-forums.com/index.php?topic=399581>

Question 2674

An electronically shifted overdrive automatic transmission is equipped with a transmission fluid temperature sensor. Technician A says that the shifts may be changed if the fluid temperature is too high. Technician B says that overdrive may be disabled if the transmission fluid temperature is too high. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400365>

Question 2675

All of these are usually responsible for assigning labor time on a work order EXCEPT _____.

- A) Service manager B) Service consultant C) Warranty clerk D) The technician

Answer: <https://biology-forums.com/index.php?topic=397456>

Question 2676

The cluster gear is supported by _____.

- A) Roller bearings between the countershaft and the case
B) Two sets of needle bearings around the countershaft
C) Either A and B
D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400219>

Question 2677

Which term is used to describe the resolution of a meter?

- A) Digits B) Counts C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398384>

Question 2678

In overdrive gear, the driveshaft rotates slower than the engine.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=400265>

Question 2679

Two technicians are discussing the use of a typical bench/pedestal mounted grinder. Technician A says that a wire brush wheel can be used to clean threads. Technician B says that the grinding stone can be used to clean threads. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397616>

Question 2680

The space behind the piston ring is called _____.

- A) Piston ring clearance B) Side clearance C) Forward clearance D) Back clearance

Answer: <https://biology-forums.com/index.php?topic=398143>

Question 2681

Technician A says that leather shoes offer more protection than canvas shoes. Technician B says that steel toed boots are essential to protecting your feet from injury. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397498>

Question 2682

Technician A says that a blower motor can be tested using a fused jumper lead. Technician B says that a blower motor can be tested using a clamp-on ammeter. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398716>

Question 2683

Positive (+) toe is _____.

- A) Toe-out B) Toe-in

Answer: <https://biology-forums.com/index.php?topic=400120>

Question 2684

"Dressing the engine" means _____.

- A) Installing all of the exterior engine components B) Cleaning the engine
C) Changing the oil and filter D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=398250>

Question 2685

Ammeters should be connected _____ with the circuit being tested.

- A) Across a load B) In series C) In parallel D) None of these

Answer: <https://biology-forums.com/index.php?topic=398375>

Question 2686

A General Motors vehicle is being tested using a scan tool. The input speed and the output speed sensor read the same when at highway speed.

Technician A says that the transmission/transaxle is in a gear where the ratio is 1:1. Technician B says that the torque converter clutch must be defective and not

working. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400364>

Question 2687

What suspension component is used to counteract body lean during cornering?

- A) Strut rod B) Stabilizer bar C) Control arm D) Torsion bar

Answer: <https://biology-forums.com/index.php?topic=399927>

Question 2688

Technician A says that you have to pay a registration fee for each test you take in a session. Technician B says that if you fail a test you have to wait a year before taking that test again. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397478>

Question 2689

Knowledge of parallel circuit fundamentals is necessary to diagnose _____.

- A) Add-on lighting circuits B) Port fuel injection circuits
C) Diesel glow plug circuits D) All of these

Answer: <https://biology-forums.com/index.php?topic=398355>

Question 2690

If the transmission ratio is 1:1, the driveshaft speed is equal to engine speed.

- A) True B) False

Answer: <https://biology-forums.com/index.php?topic=400264>

Question 2691

Sheet metal screws are also known as _____.

- A) Machine screws B) Self tapping screws C) Hardened screws D) None of these

Answer: <https://biology-forums.com/index.php?topic=397572>

Question 2692

Exhaust passages are included in some intake manifolds. Technician A says that the exhaust passages are used for exhaust gas recirculation (EGR) systems. Technician B says that the upper intake is often called the plenum. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397968>

Question 2693

Technician A says that a vehicle equipped with part-time four-wheel drive should be driven in four-wheel drive only on slippery surfaces. Technician B says that full-time four-wheel-drive vehicles use a center differential in the transfer case. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400300>

Question 2694

Where is a multilayered steel (MLS) gasket most often used in an engine?

- A) Head gasket B) Valve cover gasket
C) Oil pan gasket D) Intake manifold gasket

Answer: <https://biology-forums.com/index.php?topic=398200>

Question 2695

Which type tool is designed for cutting only?

- A) Lineman pliers B) Diagonal cutters C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397610>

Question 2696

The water pump uses which of these reactionary forces actions to circulate the coolant?

- A) Centripetal force B) Gravitational force C) Magnetic force D) Centrifugal force

Answer: <https://biology-forums.com/index.php?topic=397919>

Question 2697

How many ASE tests must be passed to become a master automotive technician?

- A) 6 B) 4 C) 8 D) 2

Answer: <https://biology-forums.com/index.php?topic=397459>

Question 2698

How long can power be retained in the high voltage system once it has been disabled?

- A) 10 minutes B) 9944 hours C) 90 seconds D) None of these

Answer: <https://biology-forums.com/index.php?topic=399454>

Question 2699

An engine dynamometer measures _____.

- A) Torque B) Fuel economy
C) Horsepower D) Both horsepower and torque

Answer: <https://biology-forums.com/index.php?topic=398225>

Question 2700

A vehicle has four parking lights all connected in parallel and one of the bulbs burns out. Technician A says that this could cause the parking light fuse to blow (open). Technician B says that it would decrease the current in the circuit. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398339>

Question 2701

Technician A says that the thicker or heavier the disc brake rotor, the more heat can be absorbed. Technician B says that the faster the vehicle is traveling when the brakes are applied, the greater the amount of heat created in the brake system. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399510>

Question 2702

Technician A says that a held member is also called the reaction member. Technician B says that if any two elements are locked together then the output will be 1:1. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400322>

Question 2703

A common goal of quality control is to reduce variation in a product or service. List and describe the two types of variability. Give an example of each.

Answer: <https://biology-forums.com/index.php?topic=408272>

Question 2704

The average age of a passenger car on the road today is over _____ years.

- A) 9 B) 5 C) 3 D) 10

Answer: <https://biology-forums.com/index.php?topic=397385>

Question 2705

Technician A says that incandescent lights may be used when working around gasoline. Technician B says that florescent lights should be used when working around gasoline. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397627>

Question 2706

Which of the following is NOT helpful information in diagnosing a suspension problem?

- A) If the problem gets worse with a warm or cold engine
B) If the problem gets worse while turning or going straight
C) If the problem gets worse in warm or cold weather
D) All of these are helpful hints for diagnosis

Answer: <https://biology-forums.com/index.php?topic=399967>

Question 2707

A dial indicator may be mounted by _____.

- A) Threaded rod B) Magnetic mount C) Clamp mount D) Any of these

Answer: <https://biology-forums.com/index.php?topic=397687>

Question 2708

Small differences in driveshaft U-joint angles cause vibration _____.

- A) When accelerating from a stop B) At highway speeds
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=400250>

Question 2709

An example of a lever and mechanical advantage used on a vehicle is the _____.

- A) Brake pedal B) Fuel tank
C) Radio volume control D) Battery

Answer: <https://biology-forums.com/index.php?topic=397696>

Question 2710

When pounding an aluminum part, it is best to pound with _____.

- A) A plastic mallet B) An iron hammer C) A steel hammer D) None of these

Answer: <https://biology-forums.com/index.php?topic=397507>

Question 2711

Most portable cranes use what type of pressure for lifting heavy loads?

- A) Hydraulic B) Pneumatic C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397637>

Question 2712

Technician A says a CANDi module will flash the RED LED rapidly if communication is detected. Technician B says a twisted pair is where two wires are twisted to prevent electromagnetic radiation from affecting the signals passing through the wires. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398547>

Question 2713

Technician A looks for engine speed (RPM) when cranking an engine that will not start. Technician B says that a problem in the primary circuit could make the tachometer not work. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398980>

Question 2714

Which type of EGR valve requires a positive exhaust system pressure to operate?

- A) Negative backpressure B) Digital
C) Positive backpressure D) Linear

Answer: <https://biology-forums.com/index.php?topic=399313>

Question 2715

One horsepower is equal to _____ watts

- A) 500 B) 746 C) 1050 D) None of these

Answer: <https://biology-forums.com/index.php?topic=398643>

Question 2716

Technician A says that the mainline pressure is usually higher in manual first or manual second gear than it is when the gear selector is in the drive position. Technician B says that mainline pressure is higher in reverse than when the gear selector is in the drive position. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400344>

Question 2717

When part-time 4WD vehicles in 4WD are engaged in a turn, which of these occur?

- A) The front wheels will have reduced toe-out on turns
B) The rear wheels turn faster and farther than the front wheels
C) The rear wheels travel faster and farther than the front wheels
D) The front wheels travel faster and farther than the rear wheels

Answer: <https://biology-forums.com/index.php?topic=400308>

Question 2718

The voltage output of a zirconia oxygen sensor when the exhaust stream is lean (excess oxygen) is _____.

- A) relatively high (close to 1 volt) B) about in the middle of the voltage range
C) relatively low (close to 0 volt) D) either A or B, depending on atmospheric pressure

Answer: <https://biology-forums.com/index.php?topic=399119>

Question 2719

Hydrogen is commonly stored at what pressure?

- A) 1000 psi B) 100,000 psi C) 50,000 psi D) 5000 psi

Answer: <https://biology-forums.com/index.php?topic=399466>

Question 2720

Where can a technician find diagnostic procedures to troubleshoot an electrical problem?

- A) Owners manual B) Lubrication guide C) Service manual D) None of these

Answer: <https://biology-forums.com/index.php?topic=397765>

Question 2721

A typical brake light switch is electrically _____.

- A) Normally open B) Normally closed

Answer: <https://biology-forums.com/index.php?topic=399558>

Question 2722

A sheet metal screw holding a metal body panel has pierced the insulation of a wire and is touching the copper wire. This would cause a _____.

- A) High resistance B) Short to ground C) Short to power D) None of these

Answer: <https://biology-forums.com/index.php?topic=398327>

Question 2723

Technician A says that comparing the front vehicle height sensors to the rear sensors allows the ECM to determine body roll created by cornering force. Technician B says that vehicle height sensors are only located on the rear. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400026>

Question 2724

Technician A says that a minor overhaul includes performing a valve job. Technician B says that a minor overhaul includes replacing the pistons. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398056>

Question 2725

The A7 test includes what subject material?

- A) Engine performance B) Heating and air conditioning
C) Electrical systems D) Engine repair

Answer: <https://biology-forums.com/index.php?topic=397485>

Question 2726

Using a torque converter smaller than stock size could result in _____.

- A) Slower than normal acceleration B) Faster than normal acceleration
C) Reduced fuel economy D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=400326>

Question 2727

Technician A says that pressure below atmospheric pressure is called vacuum and is measured in inches of mercury (Hg). Technician B says that a manifold absolute pressure (MAP) sensor uses a low vacuum in the sensor to determine the pressure. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399088>

Question 2728

All power windows fail to operate from the independent door switches but all power windows operate from the master switch. Technician A says that the window lockout switch may be on. Technician B says that the power window relay could be defective. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398729>

Question 2729

A defective thermostat can cause the engine to operate _____.

- A) Too cold B) Too hot C) Either A or B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398868>

Question 2730

Technician A says that most hybrids require that they be plugged into an electrical outlet at night to provide the electrical power to help propel the vehicle. Technician B says that the internal combustion engine in an HEV will often stop running when the vehicle is stopped. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399418>

Question 2731

The engine oil life monitor may be based on _____.

- A) Vehicle mileage B) A PCM programmed algorithm
C) Either A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397941>

Question 2732

Two technicians are discussing ignition coils. Technician A says that some ignition coils have the primary and secondary windings electrically connected. Technician B says that some coils have totally separate primary and secondary windings that are not electrically connected. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398496>

Question 2733

A meter used to measure amperes is called a(an) _____.

- A) Coulomb meter B) Amp meter C) Ampmeter D) Ammeter

Answer: <https://biology-forums.com/index.php?topic=398361>

Question 2734

The type of valve in use today is a _____ valve.

- A) Rhodium B) Poppet C) Aluminum D) Elliptical

Answer: <https://biology-forums.com/index.php?topic=398109>

Question 2735

A technician replaced a #1157NA with a #1157A bulb. What is the most likely result?

- A) The bulb is brighter because the #1157A candlepower is higher
B) The amber color of the bulb is a different shade
C) The bulb is dimmer because the #1157A candlepower is lower
D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=398674>

Question 2736

Technician A says to always adjust the clutch free play after starting the engine. Technician B says that the old clutch disc can be reused if it looks OK. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398262>

Question 2737

Which of these is a term used to describe when information is added to a constant frequency?

- A) Frequency B) Carrier wave C) Period D) Modulation

Answer: <https://biology-forums.com/index.php?topic=398786>

Question 2738

Driveline wind-up on a part-time 4WD system results in all of the listed conditions EXCEPT _____.

- A) The turning radius is different for the left and right wheels as well as the front and rear wheels
B) The front wheels tend to scoot along the pavement causing a driveline vibration
C) Low traction situations from heavy rain, mud, or snow
D) No differential action between the front and rear axles

Answer: <https://biology-forums.com/index.php?topic=400309>

Question 2739

Most vehicles today use a _____ for an input to the engine temperature display.

- A) ECT sensor B) Coolant range sensor
C) Coolant temperature sending unit D) None of these

Answer: <https://biology-forums.com/index.php?topic=398701>

Question 2740

What term describes the process where wax crystals form in diesel fuel, clogging fuel filters?

- A) Flash point B) Pour point C) Cloud point D) None of these

Answer: <https://biology-forums.com/index.php?topic=398953>

Question 2741

Technician A says that all slides and caliper bushings should be lubricated for proper operation. Technician B says that lubricant should not be used on disc brake parts because it can trap and hold dirt. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399692>

Question 2742

Two technicians are discussing how to loosen bleeder valves. Technician A says that a shock is usually necessary to break the taper at the base of the valve. Technician B says to apply steady, loosening torque to the bleeder valve using a 6-point wrench. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399594>

Question 2743

Which device is used in alternators to change AC to DC?

- A) Darlington pair B) Transistor group C) Rectifier bridge D) None of these

Answer: <https://biology-forums.com/index.php?topic=398526>

Question 2744

The VECI label includes all of these EXCEPT _____.

- A) Horsepower and torque rating of the engine B) Spark plug tip and gap
C) Valve lash D) Engine identification

Answer: <https://biology-forums.com/index.php?topic=397786>

Question 2745

What component or circuit can keep the engine from cranking?

- A) Solenoid B) Antitheft C) Ignition switch D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398614>

Question 2746

Technician A says that the height-sensing proportioning valve changes its split point by means of a rotating cam. Technician B says that levers are used in conjunction with the height-sensing proportioning valve. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399566>

Question 2747

A radio choke is actually a _____.

- A) Coil (inductor) B) Resistor C) Transistor D) Capacitor

Answer: <https://biology-forums.com/index.php?topic=398778>

Question 2748

How many degrees of CRANKSHAFT rotation are needed to complete the four stroke combustion cycle?

- A) 180 B) 90 C) 360 D) 720

Answer: <https://biology-forums.com/index.php?topic=397849>

Question 2749

The purpose of an inverter is to _____.

A) Change DC voltage to AC voltage B) Change 42 volts DC to 14 volts DC
C) Reverse the polarity of DC voltage D) Change decimal numbers to fractions
Answer: <https://biology-forums.com/index.php?topic=398527>

Question 2750

The pressure plate assembly may also be called the _____.
A) Release assembly B) Release bearing C) Clutch cover D) Driven plate
Answer: <https://biology-forums.com/index.php?topic=400187>

Question 2751

In a series circuit, total circuit resistance is equal to the _____ of the resistance of all loads in the circuit.
A) Sum B) Dividend C) Difference D) None of these
Answer: <https://biology-forums.com/index.php?topic=398341>

Question 2752

The proper height for lifting should place the work area _____.
A) Over the technicians head B) Near the floor
C) Between chest and waist level D) None of these
Answer: <https://biology-forums.com/index.php?topic=397660>

Question 2753

Technician A says that a low-restriction exhaust system could prevent a back pressure-type vacuum-controlled EGR valve from opening correctly. Technician B says restricted exhaust can cause the EGR valve position sensor to fail. Which technician is correct?
A) Technician A B) Technician B C) Both technicians D) Neither technician
Answer: <https://biology-forums.com/index.php?topic=399302>

Question 2754

How should the vehicle be driven to best break in a newly overhauled engine?
A) At varying speeds and loads B) At a steady low speed
C) At high speeds and loads D) At idle speed and little or no load
Answer: <https://biology-forums.com/index.php?topic=398256>

Question 2755

All of these are procedures that can help a service technician to diagnose engine faults, EXCEPT _____.
A) Cylinder leakage test B) Vacuum test C) Compression test D) Fuel level test
Answer: <https://biology-forums.com/index.php?topic=398014>

Question 2756

A semiconductor is a material _____.
A) Determined by other factors besides the number of electrons
B) With more than four electrons in the outer orbit of its atoms
C) With exactly four electrons in the outer orbit of its atoms
D) With fewer than four electrons in the outer orbit of its atoms
Answer: <https://biology-forums.com/index.php?topic=398507>

Question 2757

The bearings of shop equipment _____.
A) Should be lubricated regularly if possible B) Are often sealed and cannot be lubricated
C) Both A and B D) Neither A nor B
Answer: <https://biology-forums.com/index.php?topic=397635>

Question 2758

Technician A says that too much clutch pedal freeplay can cause the clutch to slip during acceleration. Technician B says that too little clutch pedal freeplay can cause the clutch to slip. Which technician is correct?
A) Technician A B) Technician B C) Both technicians D) Neither technician
Answer: <https://biology-forums.com/index.php?topic=400177>

Question 2759

Technician A says that the system should be vacuumed out so that all the old oil is removed. Technician B says that system evacuation (vacuuming) is done to remove moisture from the system. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398876>

Question 2760

Why should brake calipers be supported by a wire during brake service and NOT allowed to hang by the flexible brake hose?

- A) To help prevent damage to the brake hose
B) To keep air from getting into the system
C) To hold the caliper higher than the master cylinder to prevent fluid loss
D) To prevent bending the hose support bracket

Answer: <https://biology-forums.com/index.php?topic=399578>

Question 2761

All these methods can calculate airflow EXCEPT _____.

- A) Speed density
B) Mass airflow
C) Load calculation
D) All of these are methods of calculating the air-fuel mixture.

Answer: <https://biology-forums.com/index.php?topic=399179>

Question 2762

Which of these is true regarding the work order?

- A) The customer signs it to authorize service B) It is a legal document
C) It includes a description of the vehicle D) All of these

Answer: <https://biology-forums.com/index.php?topic=397388>

Question 2763

A growling sound is heard from the rear of a rear-wheel-drive vehicle during cornering only. Technician A says that defective rear axle bearings may be the cause. Technician B says that defective drive pinion bearings may be the cause. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400284>

Question 2764

All of the following are correct statements about braking EXCEPT _____.

- A) Kinetic energy of a vehicle doubles when the speed doubles
B) Kinetic energy must be absorbed by the braking system
C) The heavier the vehicle, the greater the kinetic energy when moving
D) If the vehicle weight is doubled, the kinetic energy of a moving vehicle is doubled

Answer: <https://biology-forums.com/index.php?topic=399506>

Question 2765

The highest bin for vehicles built after January 1, 2007 is _____.

- A) Bin 4 B) Bin 1 C) Bin 8 D) None of these

Answer: <https://biology-forums.com/index.php?topic=397803>

Question 2766

Two technicians are discussing the safe use of a wrench. Technician A says that a wrench should be pulled toward you. Technician B says a wrench should be pushed away from you. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397492>

Question 2767

The last step after replacing a defective CV boot is to _____.

- A) Lubricate the CV joint with chassis grease B) Mark the location of the boot on the drive axle shaft
C) Separate the CV joint before installation D) "Burp" the boot

Answer: <https://biology-forums.com/index.php?topic=400256>

Question 2768

The outer electron shell is known as a(an) _____.

- A) Distant ring B) Valence ring C) Unstable shell D) None of these

Answer: <https://biology-forums.com/index.php?topic=398283>

Question 2769

A metric wire size of 2.0 mm² is equivalent to _____ AWG size.

- A) 20 ga. B) 2 ga. C) 14 ga. D) 10 ga.

Answer: <https://biology-forums.com/index.php?topic=398450>

Question 2770

A potentiometer, a three-wire variable resistor, is used in which type of sensor?

- A) Manifold absolute Pressure (MAP) B) Throttle position (TPS)
C) Knock Sensor (KS) D) Barometric Pressure Sensor (BARO)

Answer: <https://biology-forums.com/index.php?topic=398280>

Question 2771

Technician A says that an attendant must be present any time a pyrolytic oven is used. Technician B says that aluminum parts should be cleaned at a temperature greater than 600 deg F. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398075>

Question 2772

A loose ground connection _____.

- A) Causes reduced current flow
B) Causes less power to be available to the electrical components
C) Both A and B
D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398328>

Question 2773

Single-piston type disc brakes are adjusted by _____.

- A) Torquing the guide pins B) Self-adjusting mechanisms
C) Piston movement through the seal D) Star wheel adjusters

Answer: <https://biology-forums.com/index.php?topic=399697>

Question 2774

A skewed thermostat means it is _____.

- A) Not working B) Working, but not at the correct temperature
C) Contaminated with coolant D) Missing the thermo wax in the heat sensor

Answer: <https://biology-forums.com/index.php?topic=398022>

Question 2775

Which of these is the heating element used to ignite the gas-generating material, usually sodium azide?

- A) Element B) Coil C) Pretensioner D) Squib

Answer: <https://biology-forums.com/index.php?topic=398765>

Question 2776

Technician A says that the ABS system may not result in shorter stopping distance compared to brakes without ABS. Technician B says that a pulsating brake pedal during normal braking is a characteristic feature of most ABS-equipped vehicles. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399788>

Question 2777

High flotation truck tires are designed for _____.

- A) Superior traction in sand or mud B) Superior off-road performance
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399873>

Question 2778

Which of these is a supplemental display that projects the vehicle speed and sometimes other data, such as turn signal information, onto the windshield?

- A) Head-up display (HUD) B) Driver Information Center (DIC)
C) Instrument Panel Display (IPD) D) Road Monitor

Answer: <https://biology-forums.com/index.php?topic=398700>

Question 2779

Technician A says that the intake and exhaust manifolds have to be removed before removing the engine from the vehicle. Technician B says that on FWD vehicles it is often easier to remove the engine from underneath rather than remove the engine from the top of the vehicle. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398052>

Question 2780

Most hydraulic brake systems use _____ rubber.

- A) SBR B) EPDM C) BUNA N D) Neoprene

Answer: <https://biology-forums.com/index.php?topic=399590>

Question 2781

Which of the following is NOT a characteristic of conventional brake fluid?

- A) Absorbs moisture from the air B) Removes paint if spilled on vehicle surfaces
C) Is clear or amber in color D) Lasts the life of the vehicle unless there is a leak

Answer: <https://biology-forums.com/index.php?topic=399571>

Question 2782

Which of these is the best tool to measure cylinder bore taper and out of round?

- A) Telescoping gauge B) Micrometer C) Dial bore gauge D) None of these

Answer: <https://biology-forums.com/index.php?topic=397689>

Question 2783

Two technicians are discussing the indirect tire-pressure monitoring system. Technician A says that it was used by some vehicle manufacturers on vehicles before the 2008 model year. Technician B says that it uses the speeds of the RF and LR tires and compares the rotating speeds of the LF and RR tires to detect a low tire. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399878>

Question 2784

Two technicians are discussing suspension bushings. Technician A says that replacing control arm bushings usually requires special tools. Technician B says using high-performance urethane bushings may cause excessive noise to be transferred to the passenger compartment. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399960>

Question 2785

Carbon and silicon are examples of _____.

- A) Insulators B) Conductors C) Semiconductors

Answer: <https://biology-forums.com/index.php?topic=398273>

Question 2786

Engine blocks can be manufactured using which of these methods?

- A) Sand cast or die-cast
B) Extruded cylinder
C) Sand cast
D) Machined from a solid piece of metal (either cast iron or aluminum)

Answer: <https://biology-forums.com/index.php?topic=398159>

Question 2787

Technician A says the flywheel and pressure plate assembly both rotate at engine crankshaft speed when the engine is running. Technician B says when the engine is running, and the transmission is in neutral, the transmission input shaft may be either rotating or at rest, depending on the clutch pedal position. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400188>

Question 2788

Which type hybrid uses 36 to 42 volts?

- A) Mild hybrid B) Strong hybrid C) Medium hybrid D) Full hybrid

Answer: <https://biology-forums.com/index.php?topic=399413>

Question 2789

Most hydraulic clutch systems use what hydraulic fluid?

- A) ATF B) SAE 80W-90 C) DOT 3 D) Mineral oil

Answer: <https://biology-forums.com/index.php?topic=400183>

Question 2790

When does the PCM perform a self test of the ETC system?

- A) When the ignition switch is first rotated to the on position, before the engine starts
B) During deceleration
C) During cruise speed when the throttle is steady
D) During acceleration

Answer: <https://biology-forums.com/index.php?topic=399221>

Question 2791

Technician A says that some proportioning valves are one part and used to control both rear brakes. Technician B says that some proportioning valves are two parts; one for each rear wheel. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399556>

Question 2792

Technician A says that the lubricating system forms a seal between the piston rings and cylinder walls. Technician B says the lubricating system helps cool engine parts. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397958>

Question 2793

Which of these is used to clean threads of a bolt to be reused?

- A) Tap B) Die C) Thread chaser D) None of these

Answer: <https://biology-forums.com/index.php?topic=397571>

Question 2794

Which switching device used below is also called a "magnetic pulse generator"?

- A) Optical sensor B) Ignition coil C) Pickup coil D) Hall-effect switch

Answer: <https://biology-forums.com/index.php?topic=398977>

Question 2795

A vehicle tends to lock up the front wheels when being driven on slippery road surfaces. Technician A says that the metering valve may be defective. Technician B says that the proportioning valve may be defective. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399561>

Question 2796

Engine stands _____.

- A) Grasp the engine block from the sides B) Hold the engine from the rear
C) Either A or B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397636>

Question 2797

What must the technician do before checking an air conditioning system for refrigerant leaks using a black light?

- A) Overcharge the system by 10 oz.
- B) Turn the system off and allow the pressure to equalize
- C) Install dye in the system
- D) Evacuate the system

Answer: <https://biology-forums.com/index.php?topic=398852>

Question 2798

With the rocker cover (valve cover) removed, the technician can inspect all items EXCEPT _____.

- A) Camshaft (overhead camshaft engine only)
- B) Combustion chamber deposits
- C) Valve stems and pushrods (overhead valve engines only)
- D) Rocker arms and valve spring

Answer: <https://biology-forums.com/index.php?topic=398044>

Question 2799

A digital storage oscilloscope is set to begin displaying a waveform when a certain voltage is detected. This minimum voltage is called _____.

- A) Threshold
- B) Trip
- C) Trigger level
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=398399>

Question 2800

A bolt that is threaded into a casting is often called a _____.

- A) Stud
- B) Block bolt
- C) Cap screw
- D) Crest bolt

Answer: <https://biology-forums.com/index.php?topic=397555>

Question 2801

Typical thrust bearing clearance is _____.

- A) 0.050 to 0.100
- B) 0.025 to 0.035
- C) 0.001 to 0.003
- D) 0.002 to 0.012

Answer: <https://biology-forums.com/index.php?topic=398239>

Question 2802

Technician A says that hydrogen may be found by itself in nature. Technician B says that hydrogen has better specific energy than fossil fuels. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399484>

Question 2803

Technician A checks ambient temperature as part of an AC performance test. Technician B says that if the AC compressor has not been operating, the high side and low side refrigerant pressure should be equal. Who is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398862>

Question 2804

Which type of fuel cell is the most likely to be used to power vehicles?

- A) PEM
- B) SOFC
- C) PAFC
- D) MCFC

Answer: <https://biology-forums.com/index.php?topic=399463>

Question 2805

Which law states that users of hazardous wastes are legally responsible for the materials from the time the material becomes a waste until it is disposed of properly?

- A) OSHA
- B) CAA
- C) MSDS
- D) RCRA

Answer: <https://biology-forums.com/index.php?topic=397529>

Question 2806

The most commonly used tap is a _____.

- A) Bottoming tap
- B) Tapered tap
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397570>

Question 2807

The button on the _____ valve should be held when pressure bleeding the brakes.

- A) Pressure-differential B) Residual check C) Metering D) Proportioning

Answer: <https://biology-forums.com/index.php?topic=399557>

Question 2808

An injection cleaning machine is being discussed. Technician A says that the applied pressure should be between 75-90 PSI before starting the engine. Technician B says to pressure clean the fuel system using a 2:1 mixture of solvent to gasoline. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399257>

Question 2809

The preferred method to clear diagnostic trouble codes (DTCs) is to _____.

- A) Cycle the ignition key on and off 40 times B) Disconnect the negative battery cable for 10 seconds
C) Use a scan tool D) Remove the computer (PCM) Power feed fuse

Answer: <https://biology-forums.com/index.php?topic=399382>

Question 2810

Which type of oil seal must NOT have oil applied to it for it to work correctly?

- A) Silicon rubber B) Teflon C) Buna-N D) Viton

Answer: <https://biology-forums.com/index.php?topic=398205>

Question 2811

The outer CV joints used on front-wheel drive vehicles are _____.

- A) Plunge type B) Fixed type

Answer: <https://biology-forums.com/index.php?topic=400232>

Question 2812

An AGM battery differs from a conventional flooded battery in what way?

- A) It does not contain electrolyte
B) It does not contain lead
C) The electrolyte is absorbed into glass separator and will not spill
D) Each cell has a voltage sensor

Answer: <https://biology-forums.com/index.php?topic=398568>

Question 2813

The grade of a fastener, such as a bolt, is a measure of its _____.

- A) Finish B) Hardness C) Color D) Tensile strength

Answer: <https://biology-forums.com/index.php?topic=397553>

Question 2814

Why should a technician never touch the glass ampoule of any halogen bulb?

- A) You can get a significant burn B) Oils from a finger can cause a shorter service life
C) The glass will melt from the heat of your finger D) The glass will crack

Answer: <https://biology-forums.com/index.php?topic=398684>

Question 2815

When checking stability, how high should the vehicle be raised?

- A) About 12 inches B) About 2 inches C) About 6 inches D) About 3 feet

Answer: <https://biology-forums.com/index.php?topic=397649>

Question 2816

What actually does the cleaning when using steam?

- A) Heat from the steam B) Pressure behind the steam
C) Abrasives used D) Both A and B

Answer: <https://biology-forums.com/index.php?topic=398061>

Question 2817

For lowest hydrocarbon emissions, which of these engine design features is used?

- A) Low combustion chamber surface area-to-volume ratio
- B) Non-centrally mounted spark plug
- C) High combustion chamber surface area-to-volume ratio
- D) Increased (as much as possible) quench area

Answer: <https://biology-forums.com/index.php?topic=398093>

Question 2818

Technician A says that during a power balance test, the cylinder that causes the biggest RPM drop is the weak cylinder. Technician B says that if one spark plug wire is grounded out and the engine speed does not drop, a weak or dead cylinder is indicated. Who is right?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398009>

Question 2819

Commonly damaged areas of vehicles being hoisted include _____.

- A) Body panels
- B) Exhaust systems
- C) Both A and B
- D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397654>

Question 2820

Which tool is best to measure valve lift?

- A) Caliper
- B) Micrometer
- C) Dial indicator
- D) Any of these

Answer: <https://biology-forums.com/index.php?topic=397688>

Question 2821

The output diodes in an alternator are mounted to which of these components?

- A) Housing
- B) Slip rings
- C) Stator
- D) Rotor

Answer: <https://biology-forums.com/index.php?topic=398646>

Question 2822

Vegetable oil is sometimes called _____.

- A) WVO
- B) SVO
- C) PPO
- D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398947>

Question 2823

The throttle body may be cleaned (if recommended by the vehicle manufacturer) if what conditions are occurring?

- A) Coast-down stall
- B) Lower-than-normal idle speed
- C) Rough idle
- D) Any of the above

Answer: <https://biology-forums.com/index.php?topic=399226>

Question 2824

Technician A says that maintenance-free batteries use a large amount of water. Technician B says that maintenance-free batteries use materials that reduce the amount of water used by the battery. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398562>

Question 2825

As temperature increases, _____.

- A) The resistance of a conductor remains the same
- B) The voltage of the conductor decreases
- C) The resistance of a conductor increases
- D) The resistance of a conductor decreases

Answer: <https://biology-forums.com/index.php?topic=398275>

Question 2826

A warped aluminum cylinder head can be restored to useful service by _____.

- A) Heating it to 500°F for 5 hours and cooling it rapidly before final machining
- B) Heating in an oven at 500°F with shims under each end, allowing it to cool, and then machining it
- C) Machining the gasket surface to one-half of the warped amount and then heating the head in an oven and allowing it to cool slowly

D) Grinding the gasket surface and then align honing the camshaft bore

Answer: <https://biology-forums.com/index.php?topic=398084>

Question 2827

Technician A says that if the backlash is okay, then the side bearing preload is also okay. Technician B says that a ring gear tooth pattern check will indicate if the drive pinion depth is correct. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400287>

Question 2828

Which of these wires is MOST likely used for starter motor high current circuits?

A) 18 ga. B) 14 ga. C) 20 ga. D) 0 ga.

Answer: <https://biology-forums.com/index.php?topic=398423>

Question 2829

The stoichiometric ratio for CNG is _____.

A) 9 to 1 B) 14.7 to 1 C) 8 to 1 D) 16.5 to 1

Answer: <https://biology-forums.com/index.php?topic=398926>

Question 2830

The torque specification for many plastic intake manifolds are in what unit?

A) Lb-ft per second B) Pound-inches C) Pound-feet D) Ft-lbs per minute

Answer: <https://biology-forums.com/index.php?topic=398028>

Question 2831

Which of the following describes a drawing or chart of an electrical circuit using lines and symbols to represent circuit path and components?

A) Diagram B) Schematic C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398462>

Question 2832

A diesel powered vehicle with a manual transmission is rapidly accelerated in low gear from an idle speed to a maximum governed RPM while the smoke emissions are measured. Which of these diesel smoke opacity tests is being performed?

A) Snap Acceleration Test B) Stall Acceleration Test
C) Rolling Acceleration Test D) Controlled Acceleration Test

Answer: <https://biology-forums.com/index.php?topic=397871>

Question 2833

Technician A says that clicker type torque wrenches should be calibrated regularly. Technician B says to store clicker torque wrenches at the zero setting. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397601>

Question 2834

Electronic voltage regulators use a temperature-sensitive resistor in the regulator circuit. This resistor, called a thermistor, provides lower resistance as the temperature _____.

A) Stays the same B) Increases C) Doubles D) Decreases

Answer: <https://biology-forums.com/index.php?topic=398649>

Question 2835

Most mechanical engine problems are caused by which of these?

A) Overheating B) Overcooling C) High RPM D) Fuel Loss

Answer: <https://biology-forums.com/index.php?topic=398018>

Question 2836

Technician A says that vehicles with less unsprung weight have better handling. Technician B says that the wheel and tire assembly are considered sprung weight. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399938>

Question 2837

A vehicle has an excessive amount of free play in the steering wheel and it is difficult to keep it traveling straight on a level road. Which is the LEAST likely cause?

- A) Worn tie rod ends B) Worn idler arms
C) Loose pitman arm retaining nut D) Excessive play in the ball socket assemblies

Answer: <https://biology-forums.com/index.php?topic=400064>

Question 2838

Which method can be used to reprogram a PCM?

- A) Direct B) Off-board C) Remote D) Any of these

Answer: <https://biology-forums.com/index.php?topic=399386>

Question 2839

The metric unit for torque used by most original equipment manufacturers (OEM) is which of these?

- A) Foot-pound B) Pound-foot C) Kilogram-meter D) Newton-meter

Answer: <https://biology-forums.com/index.php?topic=397855>

Question 2840

An O2S (Oxygen sensor) is being tested using a digital storage oscilloscope (DSO). A good oxygen sensor should display how many switches per second?

- A) 15-20 B) 1-5 C) 10-15 D) 5-10

Answer: <https://biology-forums.com/index.php?topic=399123>

Question 2841

A good reading for a cylinder leakage test would be _____.

- A) All cylinders above 20% leakage
B) All cylinders above 70% leakage and within 7% of each other
C) All cylinders below 20% leakage
D) Within 20% leakage between cylinders

Answer: <https://biology-forums.com/index.php?topic=398008>

Question 2842

Which component supports the wheel and attaches to the control arms?

- A) Shock absorber B) Ball joint C) Steering knuckle D) Sway bar

Answer: <https://biology-forums.com/index.php?topic=399949>

Question 2843

When selecting a meter, accuracy ratings that are _____ indicate more precise meters.

- A) Lower B) Higher

Answer: <https://biology-forums.com/index.php?topic=398385>

Question 2844

Technician A says that when a hybrid electric vehicle must remain in the shop for over a month, the battery should be charged by running the vehicle if possible. Technician B says that if the battery unit must be removed, it should be handled with PPE and always tested for voltage and treated with care. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399446>

Question 2845

When observing WSS output with an oscilloscope, most sensors should produce _____.

- A) An AC sine wave that increases in frequency as wheel speed increases
B) An AC sine wave that increases in amplitude as wheel speed increases
C) Both A and B are correct
D) Neither A nor B is correct

Answer: <https://biology-forums.com/index.php?topic=399824>

Question 2846

Technician A says that a wire brush is used mainly on aluminum engine parts. Technician B says that a wire brush is used mainly on cast iron engine parts. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398073>

Question 2847

The clutch pedal freeplay is less than specifications. Technician A says that the clutch may slip during hard acceleration. Technician B says that the clutch will "grab" when the clutch pedal is close to the floor when the clutch is engaged. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400181>

Question 2848

Most remote start systems will shut off the engine after _____ minutes unless reset by the remote fob.

- A) 30 B) 5 C) 10 D) None of these

Answer: <https://biology-forums.com/index.php?topic=398607>

Question 2849

Which of the following is true of a vehicle going into a turn?

- A) The outboard wheel turns faster than the inboard wheel
B) The inboard wheel turns faster than the outboard wheel
C) On a drive axle, each wheel is free to turn as needed
D) The wheels rotate at the same time

Answer: <https://biology-forums.com/index.php?topic=400295>

Question 2850

A lever pivots at a point known as a _____.

- A) Hinge B) Vortex C) Fulcrum D) None of these

Answer: <https://biology-forums.com/index.php?topic=397716>

Question 2851

Technician A says to install press-fit ball joints using a hammer on the ball joint housing to seat the ball joint in the control arm. Technician B says that a tool resembling a large C-clamp should be used to press ball joints in and out. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399978>

Question 2852

Technician A says that injector nozzles are either opened by the high-pressure pulse from a distributor pump or electrically by the computer on a common rail design. Technician B says that indirect injection (IDI) occurs directly into the combustion chamber. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397868>

Question 2853

Two technicians are discussing a Hemi engine. Technician A says that a Hemi is an engine with a hemi-spherical shaped combustion chamber. Technician B says that all Hemi engines are cam-in-block designs. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398081>

Question 2854

A vehicle with a linear EGR valve has a piece of carbon stuck in the valve, causing it to be partially open all the time. What symptom would this cause?

- A) High exhaust system pressure B) Stalling
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=399318>

Question 2855

Technician A says that backup sensors use LEDs to detect objects. Technician B says that a backup sensor will not work correctly if the paint is thicker than 0.006 inch. Who is right?

- A) A only B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398693>

Question 2856

Technician A uses silicone lubricant to seat the bead of a tire. Technician B uses motor oil to seat the bead of a tire. Which technician is correct?
A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399904>

Question 2857

An ignition coil is an example of a(an) _____.

- A) Step down transformer B) Step up transformer
C) Solenoid D) Relay

Answer: <https://biology-forums.com/index.php?topic=398494>

Question 2858

Which data set contains only two digits?

- A) Base 10 B) Hexadecimal C) Volatile D) Binary

Answer: <https://biology-forums.com/index.php?topic=399025>

Question 2859

A seat belt pretensioner is _____.

- A) Used to force the occupant back into position against the seat back in the event of a collision
B) A device that contains an explosive charge
C) Used to remove slack from the seat belt in the event of a collision
D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398750>

Question 2860

Technician A says that distilled or clean drinking water should be added to a battery when the electrolyte level is low. Technician B says that fresh electrolyte (solution of acid and water) should be added. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398569>

Question 2861

DEX-COOL is what type of coolant?

- A) PHOAT B) OAT C) IAT D) HOAT

Answer: <https://biology-forums.com/index.php?topic=397889>

Question 2862

A P0103 DTC is being discussed. Technician A says that a sensor circuit shorted-to-ground can be the cause. Technician B says that a defective MAF sensor could be the cause. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399113>

Question 2863

Tier 1 standards _____.

- A) Went into effect in 1994 B) May be different for cars and light trucks
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397798>

Question 2864

Which of these is NOT a type of lock nut?

- A) Nylon ring B) Castle nut and cotter pin
C) Distorted D) All of these are locking nuts

Answer: <https://biology-forums.com/index.php?topic=397567>

Question 2865

When the air/fuel ratio is expressed as lambda, a lambda number of less than 1 indicates a _____ exhaust.

- A) Excessively cold B) Lean C) Rich D) Excessively hot

Answer: <https://biology-forums.com/index.php?topic=399144>

Question 2866

Technician A says that a vibration damper, also known as a harmonic balancer, is used to dampen harmful twisting vibrations of the crankshaft.

Technician B says that most engines are balanced after manufacturing. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398188>

Question 2867

Which type of port fuel injection allows mixture adjustments between the firing of each cylinder?

- A) Throttle body B) Sequential C) Ganged D) Simultaneous

Answer: <https://biology-forums.com/index.php?topic=399189>

Question 2868

Water pumps _____.

- A) Are driven by the engine crankshaft or camshaft
B) Disengage during freezing weather to prevent radiator failure
C) Only work at idle and low speeds and are disengaged at higher speeds
D) Use engine oil as a lubricant and coolant

Answer: <https://biology-forums.com/index.php?topic=397907>

Question 2869

When using a DMM, the black lead usually goes in which port?

- A) 10A B) VDC C) COM D) None of these

Answer: <https://biology-forums.com/index.php?topic=398373>

Question 2870

Technician A says that a rear-window defogger can self-regulate the current flow. Technician B says that as the temperature of the grid decreases, its resistance decreases, reducing current flow. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398738>

Question 2871

Who is responsible for finding the correct part needed by the service technician?

- A) Counter person B) Service advisor C) Shop foreman D) Service technician

Answer: <https://biology-forums.com/index.php?topic=397395>

Question 2872

The three Cs include _____, _____, and _____.

- A) Concern, cause, and correction B) Correction, correct torque, and customer name
C) Captured data, cause, and cost of the repair D) Cause, Cost, and Caller name

Answer: <https://biology-forums.com/index.php?topic=397430>

Question 2873

Technician A says that the most commonly used combustion chamber types include hemispherical, and wedge. Technician B says that coolant and lubricating openings and passages are located throughout most cylinder heads. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398090>

Question 2874

Technician A says that spark knock, ping, and detonation are different names for abnormal combustion. Technician B says that any abnormal combustion raises the temperature and pressure inside the combustion chamber and can cause severe engine damage. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398888>

Question 2875

The coolant flow through the radiator is controlled by the _____.

- A) Thermostat B) Size of the passages in the block

C) Water pump D) Cooling Fan(s)

Answer: <https://biology-forums.com/index.php?topic=397831>

Question 2876

Technician A says that automotive air-conditioning refrigerants can be vented into the air if a recovery machine is not available. Technician B says that used automotive air-conditioning oils are considered hazardous. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397545>

Question 2877

Horsepower is expressed in units of _____.

A) Pound-feet per second B) Pound-feet
C) Foot-pounds D) Foot-pounds per minute

Answer: <https://biology-forums.com/index.php?topic=397833>

Question 2878

A dynamometer actually measures _____ output of an engine.

A) Force B) Torque C) Power D) None of these

Answer: <https://biology-forums.com/index.php?topic=397709>

Question 2879

Camshafts turn at which of these?

A) ½ crankshaft speed B) Twice crankshaft speed
C) Crankshaft speed D) ¼ crankshaft speed

Answer: <https://biology-forums.com/index.php?topic=398128>

Question 2880

Different brands of oil can be used in a vehicle from one oil change to another if they meet vehicle specifications, because all oil is _____.

A) The same API group B) Miscible
C) Of the same viscosity D) Both A and C

Answer: <https://biology-forums.com/index.php?topic=397935>

Question 2881

Technician A says that with self-adjusting clutch systems, the release bearing constantly rotates. Technician B says the ball bearing portion of the release bearing should be lubricated with high temperature grease during routine maintenance. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400203>

Question 2882

How energy-efficient is a typical internal combustion engine?

A) 15-20% B) 5-10% C) 40-60% D) None of these

Answer: <https://biology-forums.com/index.php?topic=399472>

Question 2883

Like charges _____

A) Neutralize each other B) Repel
C) Attract D) Add

Answer: <https://biology-forums.com/index.php?topic=398272>

Question 2884

What type of fire extinguisher is usable for most types of fires?

A) Water B) CO C) Dry chemical D) CO₂

Answer: <https://biology-forums.com/index.php?topic=397496>

Question 2885

A bolt that requires a 1/2 inch wrench to rotate is usually what size when measured across the threads?

A) 3/8 inch B) 1/2 inch C) 7/16 inch D) 5/16 inch

Answer: <https://biology-forums.com/index.php?topic=397557>

Question 2886

NOx readings at idle should be less than _____.

- A) 100 ppm
- B) 1 ppm
- C) 10 ppm
- D) None of these is correct

Answer: <https://biology-forums.com/index.php?topic=399279>

Question 2887

Two technicians are discussing a state emission test. Technician A says that a vent valve that is not able to close can cause the system to fail the on-board test. Technician B says that a leaking gas cap can cause a failure of the EVAP test. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399285>

Question 2888

A driver of a vehicle equipped with a rack and pinion steering gear complains that the steering wheel jerks whenever the vehicle is being driven into a curbed driveway. Technician A says that the rack and pinion gears may have too little clearance between the teeth of the gears. Technician B says that a lack of lubrication of the rack and pinion is the most likely cause. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400045>

Question 2889

Most automotive circuits, except for some ignition components, use _____ wire.

- A) Secondary
- B) Primary
- C) Alternative
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=398424>

Question 2890

When removing the engine only from a vehicle equipped with an automatic transmission, the torque converter normally _____.

- A) Is removed attached to the engine
- B) Remains connected to the flexplate
- C) Stays mounted on the transmission
- D) Must be drained

Answer: <https://biology-forums.com/index.php?topic=398054>

Question 2891

A technician is preparing to do an oil change on a hybrid vehicle. What special precaution needs to be taken BEFORE performing this service?

- A) Do not lift the vehicle more than 12 inches off the floor
- B) Disconnect any orange colored wiring harnesses
- C) Make sure the ignition is "OFF" and the key is removed from the ignition switch.
- D) Leave the hood closed when draining the oil

Answer: <https://biology-forums.com/index.php?topic=398039>

Question 2892

Which sensor is used to measure manifold vacuum?

- A) MAP
- B) TP
- C) RPM
- D) ECT

Answer: <https://biology-forums.com/index.php?topic=399039>

Question 2893

Which statement is false?

- A) Barometric pressure minus the MAP sensor reading equals intake manifold vacuum
- B) A decrease in manifold vacuum means an increase in manifold pressure
- C) The MAP sensor compares manifold vacuum to a perfect vacuum
- D) Absolute pressure is equal to barometric pressure plus intake manifold vacuum

Answer: <https://biology-forums.com/index.php?topic=399080>

Question 2894

The viscosity of engine oil is found where?

- A) Lubrication guide
- B) Factory service manual or service information
- C) Owners manual
- D) All of these

Answer: <https://biology-forums.com/index.php?topic=397755>

Question 2895

Technician A says that one planetary gear set can provide gear reduction, overdrive, and reverse. Technician B says that most transmissions today use compound (multiple) planetary gear sets. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400325>

Question 2896

Which of these results in the driven gear turning faster than the drive gear?

- A) Overdrive B) Direct drive C) Gear reduction D) None of these

Answer: <https://biology-forums.com/index.php?topic=397742>

Question 2897

What do the letters JJ mean in a wheel designation size labeled 14x7JJ?

- A) The bolt circle code B) The offset of the rim
C) The shape of the flange area D) The back spacing of the rim

Answer: <https://biology-forums.com/index.php?topic=399853>

Question 2898

Which statement below is correct?

- A) The primary coil windings have more turns of wire than the secondary windings.
B) The primary coil windings are designed for higher current (2-6 Amperes).
C) The secondary coil windings are designed for higher current (2-6 Amperes).
D) The primary coil windings are made of thinner wire than the secondary windings.

Answer: <https://biology-forums.com/index.php?topic=398976>

Question 2899

The coefficient of friction is found by _____.

- A) Multiplying the tensile force by the weight force B) Dividing tensile force by weight force
C) Multiplying the weight force by the tensile force D) Dividing weight force by tensile force

Answer: <https://biology-forums.com/index.php?topic=399520>

Question 2900

What steering component dampens and absorbs sudden motions in the steering linkage?

- A) Drag link B) Shock absorber C) Steering dampener D) None of these

Answer: <https://biology-forums.com/index.php?topic=400080>

Question 2901

A lateral acceleration sensor is usually located where in the vehicle?

- A) In the center console B) Under the front seat
C) On the package shelf D) Any of the above locations

Answer: <https://biology-forums.com/index.php?topic=399835>

Question 2902

The marks (lines) on the head of a bolt indicate _____.

- A) Size B) Grade C) Tensile strength D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=397556>

Question 2903

Starter motors operate on the principle that _____.

- A) Like magnetic poles repel
B) The field coils rotate in the opposite direction from the armature
C) Opposite magnetic poles repel
D) The armature rotates from a strong magnetic field toward a weaker magnetic field

Answer: <https://biology-forums.com/index.php?topic=398591>

Question 2904

What provides the strength of the structure for unit body vehicles?

- A) Cross members B) Space frame
- C) Shape of the assembly D) Full frame

Answer: <https://biology-forums.com/index.php?topic=399935>

Question 2905

Vehicle hoists are rated by _____.

- A) The maximum height a vehicle can be lifted B) Maximum lifting capacity
- C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397663>

Question 2906

Technician A says that the brake fluid reservoir should be filled to the top of the reservoir to be assured of proper brake pressure when the brakes are applied. Technician B says that the brake fluid level should be filled only to the maximum level line to allow for expansion when the brake fluid gets hot during normal operation. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399534>

Question 2907

Automatic adjusters may be actuated by all of the following EXCEPT _____.

- A) Cable B) Parking brake C) Air pressure D) Lever

Answer: <https://biology-forums.com/index.php?topic=399655>

Question 2908

The test statistic for one-way ANOVA is $F = (\text{variance between samples} / \text{variance within samples})$. Describe variance within samples and variance between samples. What relationship between variance within samples and variance between samples would result in the conclusion that the value of F is significant?

Answer: <https://biology-forums.com/index.php?topic=408263>

Question 2909

Most TP sensors have how many wires?

- A) 3 B) 2 C) 4 D) 1

Answer: <https://biology-forums.com/index.php?topic=399063>

Question 2910

Which of the following methods is most accurate for checking engine block identification?

- A) Vehicle make and model B) Number on engine block
- C) Owners manual D) Vehicle model and year

Answer: <https://biology-forums.com/index.php?topic=398172>

Question 2911

Which is the correct voltage division setting for testing a throttle position sensor?

- A) 10V B) 1V C) 5V D) 3V

Answer: <https://biology-forums.com/index.php?topic=398404>

Question 2912

Some gaskets use a steel washer around each bolt hole. The purpose of this washer is to _____.

- A) Prevent the gasket from being compressed too much
- B) Improve the strength of the gasket
- C) Help seal around the bolt hole
- D) Help prevent the gasket from shrinking

Answer: <https://biology-forums.com/index.php?topic=398203>

Question 2913

Most trucks and larger RWD vehicles use which type of frame?

- A) Stub frame B) Unit body
- C) Full frame D) None of these is correct

Answer: <https://biology-forums.com/index.php?topic=399932>

Question 2914

Two technicians are discussing a transmission that is noisy in first, second, third, and reverse but quiet in fourth gear. Technician A says there is probably a bad input shaft gear. Technician B says it probably has a faulty 1-2 synchronizer assembly because reverse is on the synchronizer sleeve. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400222>

Question 2915

Which of these is a continuous monitor?

- A) Oxygen sensor monitor B) Catalyst monitor
C) EGR monitor D) Fuel system monitor

Answer: <https://biology-forums.com/index.php?topic=399361>

Question 2916

On a vehicle with computer-controlled starting, some key-operated ignition systems, and most push-button-to-start systems use the PCM to crank the engine. The ignition switch start position or the push-to-start button is used as a(an) _____ signal to the PCM.

- A) Output B) Control C) Relay D) Input

Answer: <https://biology-forums.com/index.php?topic=398605>

Question 2917

Why should the lights be turned on when checking for ripple voltage or AC current from the alternator?

- A) To create an electrical load for the alternator B) To warm the battery
C) To check that the battery is fully charged D) To test the battery before conducting other tests

Answer: <https://biology-forums.com/index.php?topic=398655>

Question 2918

Which of the following are used with drum brake systems?

- A) Brake calipers B) Brake pads
C) Return springs D) None of these is correct

Answer: <https://biology-forums.com/index.php?topic=399503>

Question 2919

What needs to be removed to replace a drive axle shaft from a front wheel drive vehicle?

- A) Hub nut B) Tie rod end
C) Lower control arm or ball joint D) All of the above

Answer: <https://biology-forums.com/index.php?topic=400258>

Question 2920

More electrical current will tend to flow through the branch of a parallel circuit with _____ resistance.

- A) Lowest B) Infinite C) Highest D) None of these

Answer: <https://biology-forums.com/index.php?topic=398354>

Question 2921

To forward bias a silicon diode _____.

- A) The voltage at the anode must exceed the voltage at the cathode by 0.5 to 0.7 volt
B) The anode must be connected to a resistor (300-500 ohms) and 12.0 volts, with the cathode also connected to 12.0 volts
C) The voltage at the cathode must exceed the voltage at the anode by 0.3 to 0.5 volt
D) The voltage at the anode must exceed the voltage at the cathode by 0.3 to 0.5 volt

Answer: <https://biology-forums.com/index.php?topic=398518>

Question 2922

Most modern friction discs have cushion springs to _____.

- A) Helps to smooth engagement of the clutch
B) Allow movement between the hub and outer disc assembly
C) Increase centrifugal effect
D) Move dust away from the clutch engagement surfaces

Answer: <https://biology-forums.com/index.php?topic=400193>

Question 2923

Rotor finish is measured in _____.

- A) Microinches B) Centimeters C) Millimeters D) Inches

Answer: <https://biology-forums.com/index.php?topic=399752>

Question 2924

Technician A says to use masking tape temporarily over the lining material to help prevent getting grease on the lining. Technician B says that grease on the brake lining can cause the brakes to grab. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399666>

Question 2925

What is the principle used to create high voltage from low voltage?

- A) Electromagnetic magnification B) Electromagnetic multiplication
C) Electromagnetic induction D) Electromechanic induction

Answer: <https://biology-forums.com/index.php?topic=398972>

Question 2926

Included angle is _____.

- A) Camber + caster B) SAI + caster C) Toe + camber D) Camber + SAI

Answer: <https://biology-forums.com/index.php?topic=400125>

Question 2927

Tall pad extensions are used _____.

- A) To engage the frame of trucks B) To contact the pinch welds on passenger vehicles
C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=397659>

Question 2928

Steering components are connected by _____.

- A) Ball and socket joints B) Rubber bushings C) U-joints D) None of these

Answer: <https://biology-forums.com/index.php?topic=400081>

Question 2929

A vehicle vibrates at highway speed. Technician A says that water in the tire(s) could be the cause. Technician B says that an out-of-round tire could be the cause. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399901>

Question 2930

A fuel cell produces electricity from _____ and _____.

- A) Gasoline/ oxygen B) Water/ oxygen C) Hydrogen/ oxygen D) Nitrogen/ hydrogen

Answer: <https://biology-forums.com/index.php?topic=399462>

Question 2931

Technician A says that door panels use "Christmas tree" clips. Technician B says that special tools should be used to remove door panel clips to prevent damage. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397575>

Question 2932

What component pulses the fuel injector on most vehicles?

- A) Powertrain control module (PCM) B) Ignition module
C) Crankshaft sensor D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=399239>

Question 2933

Which of the following should be used when changing the oil in a car with a gasoline engine made in 2004 or later?

- A) CE API B) SM API C) GF-1 ILSAC D) CI-4 API

Answer: <https://biology-forums.com/index.php?topic=397939>

Question 2934

Technician A says the vacuum supply test involves inspecting the vacuum supply hose for kinks. Technician B says the test involves checking the level of vacuum supplied by the engine or vacuum pump. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399784>

Question 2935

Which item is a computer input sensor?

- A) Engine coolant temperature B) Throttle position angle
C) RPM D) All of the above

Answer: <https://biology-forums.com/index.php?topic=399019>

Question 2936

What is the most common type of sunload sensor?

- A) NTC thermistor B) Photo diode C) Potentiometer D) PTC thermistor

Answer: <https://biology-forums.com/index.php?topic=398825>

Question 2937

Technician A says that cooling fans are designed to draw air through the radiator to aid in the heat transfer process. Technician B says that drawing the heat from the coolant transfers this heat to the outside air through the radiator. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397915>

Question 2938

A loud "bang" is heard and felt every time the accelerator is depressed or released on a rear-wheel drive vehicle. Technician A says that a leaking shock absorber could be the cause. Technician B says that a broken torque arm could be the cause. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399984>

Question 2939

The process of combustion occurring without an open flame is called _____.

- A) Cold fusion B) Spontaneous combustion
C) Non-flame combustion D) Direct ignition

Answer: <https://biology-forums.com/index.php?topic=397494>

Question 2940

Technician A says that all unit body vehicles have a track rod or stabilizer bar in the rear suspension. Technician B says that individual leaves of a leaf spring often crack before breaking. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399999>

Question 2941

5/8 is expressed in decimal form as _____.

- A) 0.625 B) 0.253 C) 1.6 D) None of these

Answer: <https://biology-forums.com/index.php?topic=397746>

Question 2942

Technician A says that hydrogen is the fuel source for a fuel cell. Technician B says that hydrogen is an energy carrier for a fuel cell. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399483>

Question 2943

Two technicians are discussing tire pressure and temperature. Technician A says that tire pressure will drop 1 PSI for every 10 degrees drop in

temperature. Technician B says that the tire pressure will increase as the vehicle is being driven. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399877>

Question 2944

Voltage drop is a better measurement of resistance than testing static resistance because _____.

- A) The resistance specification for the component is not required for diagnosis
B) Current flow creates heat which adds to circuit resistance
C) Both A and B
D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398347>

Question 2945

How many degrees of CAMSHAFT rotation are needed to complete the four stroke combustion cycle?

- A) 180 B) 720 C) 90 D) 360

Answer: <https://biology-forums.com/index.php?topic=397840>

Question 2946

In which type of vehicle is the engine most likely to be installed from underneath the vehicle?

- A) Rear wheel drive (RWD) B) Front wheel drive (FWD)
C) Four wheel drive (4WD) D) Both A and C

Answer: <https://biology-forums.com/index.php?topic=398257>

Question 2947

The left front of the vehicle is higher than the right front and the right rear is lower than the left rear. What is the most likely cause of this problem?

- A) A weak right rear shock absorber B) A broken track rod
C) A sagging right rear spring D) A broken left front shock absorber

Answer: <https://biology-forums.com/index.php?topic=399989>

Question 2948

Technician A says that pressure testing involves injecting pressurized air into engine block water and oil passages. Technician B says that one pressure testing method involves injecting heated water and a dye into engine block water and oil passages. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398079>

Question 2949

Two technicians are discussing vacuum brake boosters. Technician A says that when the engine is running and the driver's foot is off the brake pedal, a vacuum is present on both sides of the booster diaphragm. Technician B says that when the brakes are in the applied position, vacuum is present on the front side of the diaphragm. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399777>

Question 2950

If two 4 ohm speakers are connected in series, meaning the positive (+) of one speaker is connected to the negative (-) of the other speaker, the total impedance will be _____.

- A) 6 B) 2 C) 4 D) 8

Answer: <https://biology-forums.com/index.php?topic=398775>

Question 2951

A box drawn with a solid line in a wiring diagram indicates _____.

- A) A resistor B) A portion of a component
C) A transistor D) A complete component

Answer: <https://biology-forums.com/index.php?topic=398465>

Question 2952

Which one is not a form of drum distortion?

- A) Out-of-round B) Lack of parallelism C) Eccentric D) Bellmouth

Answer: <https://biology-forums.com/index.php?topic=399763>

Question 2953

How should NiMH batteries be disposed of?

- A) Submerged in water and then disposed of in the regular trash
- B) Burned at an EPA-certified plant
- C) In the regular trash
- D) Call an 800 number shown under the hood of the vehicle for information

Answer: <https://biology-forums.com/index.php?topic=399442>

Question 2954

Technician A says that air-operated grease guns are more expensive than battery operated grease guns. Technician B says that battery operated grease guns require a supply of compressed air. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397626>

Question 2955

Technician A says that most digital and analog (needle-type) dash gauges use variable resistance sensors. Technician B says that permanent-magnet (PM) generators produce an AC signal and are used for vehicle speed and wheel speed sensors. Who is right?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398697>

Question 2956

HCCI is a process that eliminates what parts or components in a gasoline engine?

- A) Ignition system
- B) Fuel tank
- C) Battery
- D) Fuel injectors

Answer: <https://biology-forums.com/index.php?topic=399468>

Question 2957

How are the inner tie rods attached to the rack on a center take-off type rack and pinion steering gear?

- A) Bolted
- B) Pinned
- C) Staked
- D) Riveted

Answer: <https://biology-forums.com/index.php?topic=400065>

Question 2958

What force causes a head gasket to be drawn downward during engine operation?

- A) Head bolt torque
- B) Intake stroke vacuum
- C) Exhaust gas pressure
- D) Gravity

Answer: <https://biology-forums.com/index.php?topic=398199>

Question 2959

All of the following are approved methods for diagnosing an ECT (engine coolant temperature) sensor EXCEPT _____.

- A) Substituting a variable resistor
- B) Scan tool
- C) Observing resistance values at a specified temperature
- D) Digital multimeter (DMM)

Answer: <https://biology-forums.com/index.php?topic=399052>

Question 2960

To avoid problems with the variation of gasoline, all government testing uses _____ as a fuel during testing procedures.

- A) MBTE (methyl tertiary butyl ether)
- B) Xylene
- C) Indolene
- D) TBA (tertiary butyl alcohol)

Answer: <https://biology-forums.com/index.php?topic=398893>

Question 2961

An electrical conductor is an element with _____ electrons in its outer orbit.

- A) Exactly 4
- B) More than 4
- C) Less than 2
- D) Less than 4

Answer: <https://biology-forums.com/index.php?topic=398271>

Question 2962

Automotive service systems are generally separated into how many content areas?

A) 6 B) 10 C) 4 D) 8

Answer: <https://biology-forums.com/index.php?topic=397347>

Question 2963

Adding a chemical to make ethylene glycol bitter to the taste is called _____.

A) Refractometer B) Embittered C) Passivation D) Electrolysis

Answer: <https://biology-forums.com/index.php?topic=397887>

Question 2964

Two technicians are discussing finding a short to ground using a test light. Technician A says that the test light, connected in place of the fuse, will light when the circuit that has the short is disconnected. Technician B says that the test light should be connected to the positive (+) and negative (-) terminals of a battery during this test. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398459>

Question 2965

To activate or learn a direct pressure sensor, what does the service technician need to do?

A) Use a handheld tester
B) Enter learn mode and decrease inflation pressure
C) Enter learn mode and use a magnet
D) Any of the above, depending on the vehicle and system

Answer: <https://biology-forums.com/index.php?topic=399882>

Question 2966

Technician A says that the load index marked on the tire indicates the maximum load the vehicle can carry. Technician B says that the load index marked on the tire indicates the maximum load each tire is designed to carry. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399874>

Question 2967

A front-wheel drive vehicle has a broken condenser line. What other vehicle component may also be defective that could have caused the condenser line to break?

A) AC compressor drive belt B) Cooling fan
C) Engine mounts D) Shock absorbers

Answer: <https://biology-forums.com/index.php?topic=398798>

Question 2968

N-type material is silicone doped with which of these?

A) Arsenic B) Antimony C) Phosphorous D) Any of these

Answer: <https://biology-forums.com/index.php?topic=398521>

Question 2969

On a General Motors vehicle, how long will the fuel pump run if the ignition is turned on but the engine is not started?

A) One to two seconds
B) Between 10 and 20 minutes, depending on the vehicle
C) 500 ms
D) Until the ignition is turned off

Answer: <https://biology-forums.com/index.php?topic=399165>

Question 2970

What would happen if oil or water (coolant) was at the bottom of a dry hole in the bolt when the head bolts are installed and torqued?

A) Block could crack B) Bolt would break
C) Liquid would be forced upward and out of the hole D) Either B or C

Answer: <https://biology-forums.com/index.php?topic=398229>

Question 2971

When the fuel pressure regulator is deactivated, the fuel pressure defaults to _____.

A) Low pressure mode B) 60 PSI C) High pressure mode D) Acceleration mode

Answer: <https://biology-forums.com/index.php?topic=399213>

Question 2972

Air that enters the engine without passing through the air flow sensor is called _____.

- A) Dirty air B) Measured air C) False air D) Bypass air

Answer: <https://biology-forums.com/index.php?topic=399107>

Question 2973

When replacing a timing belt, many experts and vehicle manufacturers recommend that what other part(s) should be replaced?

- A) Camshaft oil seal(s) B) Tensioner assembly C) Water pump D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398029>

Question 2974

Powdered connecting rods can be marked with _____.

- A) A steel number stamp B) A punch
C) A permanent ink marker D) Any of these

Answer: <https://biology-forums.com/index.php?topic=398057>

Question 2975

A complete circuit that is continuous from source through loads and back to ground has _____.

- A) Congruency B) Continuity C) Both A and B D) Neither A nor B

Answer: <https://biology-forums.com/index.php?topic=398312>

Question 2976

A normal reading when testing for electrolysis in the coolant is _____.

- A) Less than 300 mV B) More than .5 V C) At least .5 V D) 5 V or more

Answer: <https://biology-forums.com/index.php?topic=397899>

Question 2977

Technician A says that a bleeder screw wrench is needed to manually bleed brakes. Technician B says that a length of plastic hose and clear jar should be used when manually bleeding brakes. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399611>

Question 2978

What is the MOST likely cause of bump steer?

- A) Worn outer tie rod ends
B) Worn or oil soaked rack bushings
C) A worn center link
D) A lack of proper lubrication of all ball and socket joints

Answer: <https://biology-forums.com/index.php?topic=400066>

Question 2979

When measuring the output signal of a MAP sensor on a General Motors vehicle, the digital multimeter should be set to read _____.

- A) Frequency in Hz B) AC volts C) DC volts D) DC amperes

Answer: <https://biology-forums.com/index.php?topic=399084>

Question 2980

The computer will automatically clear a DTC if there are no additional detected faults after _____.

- A) Forty-five warm-up cycles B) One consecutive trip
C) Five key-on/key-off cycles D) Forty consecutive warm-up cycles

Answer: <https://biology-forums.com/index.php?topic=399365>

Question 2981

Technician A says that all oil galleries must be thoroughly cleaned before engine assembly can begin. Technician B says that all expansion cups and plugs should be installed with a sealer to prevent leaks. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398236>

Question 2982

A defective brake switch could prevent proper operation of the _____.
A) ABS brakes B) Shift interlock C) Cruise control D) All of the above

Answer: <https://biology-forums.com/index.php?topic=398677>

Question 2983

Technician A says that the PCV system should create a slight pressure in the crankcase at idle. Technician B says that the PCV system should create a slight vacuum in the crankcase at 2,500 RPM. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399323>

Question 2984

Technician A says that a converter that rattles when tapped with a mallet should be replaced. Technician B says that the root cause of the converter failure should be diagnosed and repaired before a replacement converter is installed. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399356>

Question 2985

Airflow through a typical HVAC system is being discussed. Technician A says that outside air is always used in all heating and cooling positions. Technician B says that the temperature is controlled by blending airflow through the evaporator and heater core. Which technician is correct?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398844>

Question 2986

The splash shield is a component of which type brake assembly?

A) Disc B) Parking brake C) Drum D) None of these

Answer: <https://biology-forums.com/index.php?topic=399500>

Question 2987

Two technicians are discussing torque wrenches. Technician A says that a torque wrench is capable of tightening a fastener with more torque than a conventional breaker bar or ratchet. Technician B says that a torque wrench should be calibrated regularly for the most accurate results. Which technician is correct?

A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397585>

Question 2988

Disc brake pads can reach temperatures as high as _____.

A) 1300 degrees F (700 degrees C) B) 300 degrees F (150 degrees C)
C) 2000 degrees F (1093 degrees C) D) 1000 degrees F (540 degrees C)

Answer: <https://biology-forums.com/index.php?topic=399514>

Question 2989

Technician A says that proper starter operation depends on the battery being at a 95% charge and battery cables being of the correct size (gauge) and having no more than 0.8-volt drop. Technician B says that voltage-drop testing includes cranking the engine, measuring the drop in voltage from the battery to the starter, and measuring the drop in voltage from the negative terminal of the battery to the engine block. Who is right?

A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398621>

Question 2990

A type of test question NOT asked on the ASE certification test is _____.

A) Multiple choice B) Least likely C) Most likely D) Fill in the blank

Answer: <https://biology-forums.com/index.php?topic=397463>

Question 2991

Which of the following should be checked before returning the vehicle to the customer?

A) The radio presets and clock have been restored B) The vehicle is clean
C) The radio is turned off D) All of these are correct

Answer: <https://biology-forums.com/index.php?topic=399403>

Question 2992

A wheel speed sensor is producing lower than expected voltage as the wheel rotates. Which of these is NOT a possible cause?

- A) Damaged or corroded electrical connector
- B) Debris on the sensor
- C) Incorrect air gap between the sensor and toothed ring
- D) All of these are possible causes

Answer: <https://biology-forums.com/index.php?topic=399823>

Question 2993

Technician A says that if brake fluid movement is observed when the service brake is depressed, there is air in the hydraulic system. Technician B says that if venting (compensating) occurs, the master cylinder is usually operating okay. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399539>

Question 2994

There are _____ millimeters in one centimeter

- A) 100
- B) 0.10
- C) 10
- D) 1000

Answer: <https://biology-forums.com/index.php?topic=397676>

Question 2995

The first fuel filter in the sock inside the fuel tank normally filters particles larger than _____.

- A) 70 to 100 microns
- B) 0.001 to 0.003 inches
- C) 0.010 to 0.030 inches
- D) 10 to 20 microns

Answer: <https://biology-forums.com/index.php?topic=399147>

Question 2996

Global (generic) OBD II contains some data in what format?

- A) Plain English
- B) Roman numerals
- C) Hexadecimal
- D) All of the above

Answer: <https://biology-forums.com/index.php?topic=399363>

Question 2997

Technician A says the stoichiometric ratio for gasoline is about 9.0:1. Technician B says the stoichiometric ratio for ethanol is about 9.0:1. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398920>

Question 2998

Which metal is the best conductor of electricity?

- A) Gold
- B) Brass
- C) Copper
- D) Silver

Answer: <https://biology-forums.com/index.php?topic=398418>

Question 2999

Technician A says that some GM vehicles have only one height sensor. Technician B says that GM vehicles may have up to four height sensors. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=400028>

Question 3000

Technician A says that an electronic throttle control uses a stepper motor. Technician B says that an electronic throttle control uses is spring loaded to about 16% to 20% throttle opening. Which technician is correct?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399227>

Question 3001

Technician A says that powdered metal connecting rods cannot be reconditioned and must be replaced if damaged or worn. Technician B says that the piston and the connecting rod must be correctly assembled according to identifying notches or marks. Who is right?

- A) Technician A
- B) Technician B
- C) Both technicians
- D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398151>

Question 3002

Technician A says that current is created in the stator windings of an alternator. Technician B says that the voltage regulator controls the current flow through the rotor. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398642>

Question 3003

Technician A says that a hose clamp can be used to compress the retainer fingers of a parking brake cable in order to remove it from the backing plate. Technician B says a box-end wrench can be used instead of a hose clamp. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399736>

Question 3004

Technician A says oil that pressure should be tested before installation of the engine in the vehicle. Technician B says that some cylinder heads use the torque-to-yield method, where the head bolts are tightened to a specified torque and then rotated an additional specified number of degrees. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398247>

Question 3005

Nickel metal hydride (NiMH) batteries can be damaged if exposed to temperatures higher than about _____.

- A) 150 deg F B) 175 deg F C) 225 deg F D) 200 deg F

Answer: <https://biology-forums.com/index.php?topic=399441>

Question 3006

In retirement, what percentage of savings can be withdrawn each year without reducing the capital investment?

- A) 10% B) 25% C) 4% D) None of these

Answer: <https://biology-forums.com/index.php?topic=397424>

Question 3007

Which statement below is correct?

- A) No voltage is induced in the primary circuit.
B) Turning on the low voltage primary coil induces a high voltage in the secondary windings.
C) No voltage is induced in the secondary circuit.
D) Turning off the low voltage primary coil induces a high voltage in the secondary windings.

Answer: <https://biology-forums.com/index.php?topic=398975>

Question 3008

Tall safety stands would be used to _____.

- A) Help support the vehicle when a major component is removed from the vehicle
B) Lift a vehicle
C) Lift a component such as an engine high off the ground
D) Both B and C

Answer: <https://biology-forums.com/index.php?topic=397643>

Question 3009

Technician A says that an idle air control valve controls the airflow past closed throttle plates. Technician B says that the idle air control valve is usually controlled by a stepper motor. Which technician is correct?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399198>

Question 3010

Technician A says that the metal brake fluid reservoir found on older vehicles requires the top to be removed to check fluid level. Technician B says that when filling a brake fluid reservoir to leave room for expansion due to heat. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=397820>

Question 3011

Technician A says that all battery connections should be inspected for corrosion. Technician B says that battery cables should be checked for corrosion and replaced as needed. Who is right?

- A) Technician A B) Technician B C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=398579>

Question 3012

Which of the following represent typical power steering pressures?

- A) about 450 psi when cornering
B) less than 150 psi when straight ahead
C) over 750 psi when slowly maneuvering a parking lot
D) all of the above are correct

Answer: <https://biology-forums.com/index.php?topic=400099>

Question 3013

Which of these tools is best to check whether the PCM is pulsing an injector?

- A) Digital multimeter B) Analog multimeter C) Test light D) Noid light

Answer: <https://biology-forums.com/index.php?topic=399246>

Question 3014

The last two letters of a lining edge code reads EF. This means _____.

- A) The lining manufacturing code
B) The lining has a higher coefficient of friction when cold than when hot
C) The lining meets SAE standards for durability
D) The lining has a higher coefficient of friction when hot than when cold

Answer: <https://biology-forums.com/index.php?topic=399654>

Question 3015

All electronic throttle control system includes the following components, EXCEPT _____

- A) Throttle valve actuator B) Throttle position sensor
C) Accelerator pedal position (APP) sensor D) Idle control switch

Answer: <https://biology-forums.com/index.php?topic=399231>

Question 3016

Technician A says that all vehicles equipped with rear disc brakes use a parking brake that is integrated in the caliper. Technician B says that all vehicles equipped with rear disc brakes use a small drum brake inside the rear rotor for a parking brake. Which technician is correct?

- A) Technician A only B) Technician B only C) Both technicians D) Neither technician

Answer: <https://biology-forums.com/index.php?topic=399686>