

Question 1

Since the year 2000 under the Clinton administration, the general national forest policy has been to

- A) construct as many new roads in national forests as are needed to support logging and fire suppression.
- B) ban the construction of new roads in national forests.
- C) convert wild national forests into commercial operations that replant clear-cut regions with the most commercially valuable tree species.
- D) convert national forests that have never been logged into commercially valuable logged and replanted regions.

Answer: <https://biology-forums.com/index.php?topic=258599>

Question 2

In the western United States, we expect that rain shadows most frequently occur on

- A) the leeward, east side of mountain ranges.
- B) the windward, west side of mountain ranges.
- C) the northern slopes of mountains, which receive less sunlight.
- D) the southern slopes of mountains, which receive more sunlight.

Answer: <https://biology-forums.com/index.php?topic=258800>

Question 3

All instruments used in scientific investigations must be

- A) tested for accuracy.
- B) available to the public.
- C) composed of all new materials.
- D) designed for one particular function.

Answer: <https://biology-forums.com/index.php?topic=258030>

Question 4

One ongoing concern about transgenic crops that produce pesticides is that this trait may

- A) kill other insects that are not pests.
- B) be so effective, that all of the crop pests are eliminated.
- C) be transferred to other crops, such as soybeans or cotton.
- D) not kill pests that attack other crops, such as soybeans or cotton.

Answer: <https://biology-forums.com/index.php?topic=258992>

Question 5

The space inside the two buildings with the egg-shaped tops

- A) is filled with aerobic bacteria.
- B) contains large amounts of ammonia.
- C) is filled with biogas.
- D) contains high levels of oxygen.

Answer: <https://biology-forums.com/index.php?topic=256996>

Question 6

Which one of the following is likely to result from damming a river?

- A) access to buried resources in flooded land is greatly increased
- B) wetland habitats are expanded
- C) the frequency and severity of floods decreases
- D) water cools and contains more oxygen

Answer: <https://biology-forums.com/index.php?topic=258828>

Question 7

Stewardship of water resources includes

- A) the needs of natural ecosystems and endangered species.
- B) the reduction of wasteful use of water.
- C) the need for good water for developing societies.
- D) All of the above.

Answer: <https://biology-forums.com/index.php?topic=258864>

Question 8

The heavy reliance upon coal from the late 1800s through the 1940s was most apparent to anyone standing outside in

- A) rural environments far away from cities.
- B) large industrialized cities.
- C) seaports that relied on fishing.
- D) a region that relied on logging and the timber industry.

Answer: <https://biology-forums.com/index.php?topic=259136>

Question 9

According to the WHO, the greatest global root cause of risk of disease is

- A) infectious disease.
- B) cancer.
- C) heart disease.
- D) poverty.

Answer: <https://biology-forums.com/index.php?topic=256470>

Question 10

This small residential pond in the middle of this subdivision is most likely

- A) a natural pond that happened to be in the region where the homes were built.
- B) part of a storm-water management system, to reduce erosion from runoff.
- C) constructed specifically as a source of water for people to use to irrigate their lawns.
- D) part of the sewage treatment facility that serves the homes in this region.

Answer: <https://biology-forums.com/index.php?topic=256959>

Question 11

Which of the following represents a type of top-down regulation for rattlesnakes living in Arizona?

- A) the availability of fresh water
- B) the number of mice in the region
- C) abundance of rocks under which snakes can hide
- D) the number of snake-eating hawks in the region

Answer: <https://biology-forums.com/index.php?topic=258254>

Question 12

Radioactive substance A breaks down to substance B with a half-life of 1,000 years. If we start out with four kilograms of radioactive substance A, how much of those four kilograms of substance A will remain in 3,000 years?

- A) 250 grams
- B) 500 grams
- C) 1 kilogram
- D) 2 kilograms

Answer: <https://biology-forums.com/index.php?topic=259262>

Question 13

Today, environmental regulations in the United States

- A) require substantial scientific support and strong political efforts.
- B) require only substantial scientific support.
- C) are hopeless, with little support remaining and general reversals of many policies and regulations.
- D) are simply a matter of politics, with little effort to involve science and scientific data.

Answer: <https://biology-forums.com/index.php?topic=258130>

Question 14

Examine the dependency ratio trends for the regions in this figure. The dependency ratio for high-income countries has risen because

- A) more people work to keep per capita incomes high.
- B) as per capita income rises, family size increases.
- C) as per capita income rises, people marry at a younger age.
- D) life-spans are longer following a demographic window.

Answer: <https://biology-forums.com/index.php?topic=258712>

Question 15

Compared to forests using sustainable forest management, commercial forests managed for maximum sustainable yield of commercially valuable species will

- A) support more biological diversity.
- B) be more resistant to pests.

- C) produce a greater variety of wood.
- D) have greater erosion problems.

Answer: <https://biology-forums.com/index.php?topic=258564>

Question 16

A man discovers that he has a fungus attacking the roots of flowers in his garden. If he uses a broad-spectrum fungicide to kill the pests, he may risk

- A) poisoning his children
- B) killing beneficial pollinating insects
- C) killing beneficial decomposer fungi and mycorrhizae
- D) killing many of the flowers he is trying to protect.

Answer: <https://biology-forums.com/index.php?topic=259052>

Question 17

You are tired of watching your crops die in the field from several pest species. You decide that next year you are going to use every type of ecological pest control you can find to address your problem. Over the winter you get ready, ordering pheromones that interfere with the reproduction of the pests, sterile male flies that will try to reproduce with some of the pest flies that you have, and wasps that lay their eggs in the larvae of another of your pests. It is expensive, but you think this should work well. Which of the following forms of control are you not using?

- A) cultural control
- B) natural enemies control
- C) genetic control
- D) natural chemical control

Answer: <https://biology-forums.com/index.php?topic=259099>

Question 18

Which of the following illustrates a risk assessment of climate system change?

- A) using natural gas instead of coal to generate electricity
- B) using solar and nuclear power to generate electricity instead of burning coal
- C) measuring the levels of carbon dioxide in the atmosphere
- D) determining what sorts of crops will be better suited to the new climate

Answer: <https://biology-forums.com/index.php?topic=256604>

Question 19

Volcanoes are triggered by

- A) changes in solar radiation.
- B) movement of tectonic plates.
- C) human mining activities.
- D) major changes in climate.

Answer: <https://biology-forums.com/index.php?topic=258317>

Question 20

Many brownfield sites involve social issues centering around

- A) the precautionary principle.
- B) environmental justice.
- C) ecosystem restoration.
- D) environmental economics.

Answer: <https://biology-forums.com/index.php?topic=257317>

Question 21

Compared to persistent pesticides, nonpersistent pesticides are

- A) less likely to cause resurgences, secondary-pest outbreaks, or promote pesticide resistance.
- B) more likely to cause biomagnification and bioamplification.
- C) equally as likely to cause resurgences, secondary-pest outbreaks, or promote pesticide resistance.
- D) more likely to cause resurgences and secondary-pest outbreaks but less likely to promote pesticide resistance.

Answer: <https://biology-forums.com/index.php?topic=259085>

Question 22

Which two fuels are currently used at about equal levels in the United States?

- A) water power and nuclear power
- B) coal and natural gas
- C) coal and oil

D) oil and natural gas

Answer: <https://biology-forums.com/index.php?topic=259143>

Question 23

Living organisms draw their essential elements from

- A) the atmosphere.
- B) the lithosphere.
- C) the atmosphere and lithosphere.
- D) the atmosphere, lithosphere, and hydrosphere.

Answer: <https://biology-forums.com/index.php?topic=258184>

Question 24

The World Bank is

- A) the largest agency providing aid to developing countries.
- B) a new collection of about 30 banks founded in 1990, and focused on investments in technology.
- C) a branch of the United Nations established in the 1970s to focus on environmental sustainability.
- D) the main provider of funds and supporting the economies of most developed nations of the world.

Answer: <https://biology-forums.com/index.php?topic=258729>

Question 25

Which one of the following has been declining globally over the past several decades?

- A) nitrous oxide levels in the troposphere
- B) methane levels in the troposphere
- C) mean global temperature
- D) pH of the world's oceans

Answer: <https://biology-forums.com/index.php?topic=256656>

Question 26

Which one of the following statements best reflects the overall position of current science on the role of biodiversity in ecosystems?

- A) The more species in an ecosystem, the greater the biomass production.
- B) The more species in an ecosystem, the greater its drought resistance.
- C) The effects of biodiversity loss on ecosystem function depend on how many and which species are lost.
- D) Every species in an ecosystem is essential to maintain the overall ecosystem.

Answer: <https://biology-forums.com/index.php?topic=258488>

Question 27

Which of the following is an expected outcome of debt relief in developing nations?

- A) increased spending on health and more children going to school
- B) increased use of technology by the poorest citizens
- C) decreased reliance upon fossil fuels for heating and cooking
- D) increased access to public transportation in rural parts of the country

Answer: <https://biology-forums.com/index.php?topic=258735>

Question 28

Many companies have reduced their generation of toxic wastes and saved money by

- A) recycling toxic materials.
- B) using different combinations of toxic materials.
- C) purchasing toxic materials from other companies.
- D) developing more on-site toxic waste storage facilities.

Answer: <https://biology-forums.com/index.php?topic=257355>

Question 29

Centrally planned and free-market economies both

- A) function best without government regulations.
- B) rely upon the self-interests of individuals.
- C) represent ideals not found in pure form in any country.
- D) depend upon free access to the market.

Answer: <https://biology-forums.com/index.php?topic=258066>

Question 30

Which one of the following soil types will hold the most water? The most water would be held by a soil consisting of equal masses of

- A) sand and silt.
- B) clay and sand.
- C) silt and clay.
- D) small stones and sand.

Answer: <https://biology-forums.com/index.php?topic=258876>

Question 31

The most dramatic temperature shifts in the past few decades have been

- A) on land near the equator.
- B) in the oceans nearest the equator.
- C) in the north and south polar regions.
- D) in the innermost regions of the North American and African continents.

Answer: <https://biology-forums.com/index.php?topic=256648>

Question 32

The International Whaling Commission moratorium on whale hunting has been in effect since 1986 primarily because

- A) enforcing and monitoring hunting in open oceans is very difficult.
- B) virtually all species of whales are classified as endangered species.
- C) of a worldwide recognition of the tourism value of whales.
- D) of viral infections that make all whale meat unsuitable for human consumption.

Answer: <https://biology-forums.com/index.php?topic=258579>

Question 33

In a significant 2004 paper reviewing 69 studies on world human population and carrying capacity, the authors estimated that the sustainable carrying capacity of humans for the planet is about

- A) 600 million.
- B) 2.5 billion.
- C) 7.7 billion.
- D) 20 billion.

Answer: <https://biology-forums.com/index.php?topic=258635>

Question 34

If the sun suddenly stopped shining, where would be the best outdoor location to stay warm with the least change in ambient temperature?

- A) Atlanta, Georgia
- B) on a beach in Hawaii
- C) Kansas City, Kansas
- D) the center of Brazil

Answer: <https://biology-forums.com/index.php?topic=256625>

Question 35

Arriving at the hotel for the meeting, a woman decides to get a workout in the pool. Upon stepping into the pool area, she quickly finds it difficult to breathe because of the high levels of chlorine in the air above the pool. This woman is experiencing

- A) a lethal reaction to the chlorine in the air.
- B) a chronic reaction to the chlorine in the air.
- C) an acute reaction to the chlorine in the air.
- D) a carcinogenic reaction to the chlorine in the air.

Answer: <https://biology-forums.com/index.php?topic=256507>

Question 36

The Atlanta BeltLine Project addresses environmental justice issues because it will

- A) use a mix a public and private funding.
- B) create many temporary construction jobs.
- C) expand the parks and trails of the area.
- D) clean up and redevelop more than 1000 acres of brownfields.

Answer: <https://biology-forums.com/index.php?topic=257371>

Question 37

Urban sprawl and urban blight are serious problems for urban regions. However, the consequences are generally different. Urban sprawl generally results in problems associated with

- A) the environment while urban blight involves issues of social justice.
- B) public health while urban blight involves issues of the environment.
- C) social justice while urban blight involves issues of education.
- D) education while urban blight involves issues of public health.

Answer: <https://biology-forums.com/index.php?topic=257458>

Question 38

Wild plants often have greater resistance to parasites than domesticated plants because the wild plants experience

- A) natural selection, while domesticated plants experience artificial selection.
- B) natural selection, while domesticated plants do not experience any selection.
- C) artificial selection, while domesticated plants experience natural selection.
- D) artificial selection, while domesticated plants do not experience any selection.

Answer: <https://biology-forums.com/index.php?topic=258414>

Question 39

Over this 10-year period, the benefit to cost ratio is

- A) 4 to 3.
- B) 3 to 4.
- C) 4 to 2.
- D) 2 to 4.

Answer: <https://biology-forums.com/index.php?topic=258117>

Question 40

In the United States from the Civil War to World War II, the most important fuel was

- A) natural gas.
- B) coal.
- C) wood.
- D) oil.

Answer: <https://biology-forums.com/index.php?topic=259135>

Question 41

In a cap-and-trade program,

- A) companies that exceed emission caps must agree to do better the following year.
- B) a company that does not reach its GHG cap pays taxes at a higher corporate rate.
- C) all companies pool their resources and try to stay under a collective cap.
- D) a company that does not reach its cap can sell credits to companies that exceed the caps.

Answer: <https://biology-forums.com/index.php?topic=256704>

Question 42

The elimination of leaded gasoline resulted in

- A) a doubling of gas mileage in cars.
- B) a 40% increase in the sale of diesel-powered vehicles.
- C) a benefit to cost ratio of at least 10 to 1.
- D) the renewal of the ozone layer.

Answer: <https://biology-forums.com/index.php?topic=258127>

Question 43

At present, the total number of long-term, commercial, below-ground nuclear waste depository sites in use in the United States is

- A) zero.
- B) 7.
- C) 23.
- D) over a hundred.

Answer: <https://biology-forums.com/index.php?topic=259267>

Question 44

Automobiles with fuel cells can be more flexibly designed because they

- A) do not have wheels.
- B) have to be so large that there is extra room for passengers and accessories.
- C) do not have an engine fuel combustion compartment.
- D) do not have to be aerodynamically constructed to get better fuel mileage.

Answer: <https://biology-forums.com/index.php?topic=259380>

Question 45

Although all of the following have had positive effects, the most effective way to reduce smoking in children in the United States has been to

- A) raise cigarette taxes.
- B) prohibit the use of cigarettes by characters in movies and on TV.
- C) ban cigarette sales within a half-mile of schools.
- D) ban cigarette sales to people under the age of 18.

Answer: <https://biology-forums.com/index.php?topic=256489>

Question 46

The Atlanta BeltLine project seeks to

- A) identify regions of sprawl within the city.
- B) take a brownfield area and retrofit it using principles of smart growth.
- C) try to bring social services to an area of urban blight
- D) construct new interstate highways to relieve some of the area's congestion.

Answer: <https://biology-forums.com/index.php?topic=257365>

Question 47

In the United States, where hazardous waste sites and hazardous facilities are located is most related to the

- A) geological features of the region.
- B) weather in that particular region.
- C) proximity to lakes, rivers, and oceans.
- D) political power of the affected groups.

Answer: <https://biology-forums.com/index.php?topic=257349>

Question 48

Which of the following best illustrates bias in scientific investigations?

- A) Investigations of the cause of AIDS are limited by our inability to see viruses.
- B) Investigations of the health effects of smoking are funded and published by a tobacco company.
- C) Researchers studying heron nests notice that some baby herons fall out of nests and are killed.
- D) An experiment testing the effect of a new drug has only one control group.

Answer: <https://biology-forums.com/index.php?topic=258031>

Question 49

Sumatran rhino populations have declined steadily to a point near extinction. Because of its population decline, this unusual forest-dwelling rhino is near its

- A) carrying capacity and is officially listed as threatened.
- B) carrying capacity and is officially listed as endangered.
- C) critical number and is officially listed as threatened.
- D) critical number and is officially listed as endangered.

Answer: <https://biology-forums.com/index.php?topic=258256>

Question 50

A surprising new finding in the battle against AIDS reveals that HIV transmission in heterosexual relationships is reduced if

- A) the woman is taking the pill for birth control.
- B) a woman has already had two children.
- C) the male has had sex with a prostitute.
- D) the male is circumcised.

Answer: <https://biology-forums.com/index.php?topic=258760>

Question 51

Increased reliance upon oil imports have generally paralleled

- A) increased interest and involvement in Middle East politics.
- B) increased interest in fighting global hunger.

- C) decreased reliance on other fossil fuels.
- D) decreased efforts to explore alternate forms of fuel.

Answer: <https://biology-forums.com/index.php?topic=259185>

Question 52

Compared to a nuclear plant, a coal-fired plant

- A) emits much less carbon dioxide.
- B) requires much less mining and results in fewer mining deaths.
- C) contributes to acid rain, and a nuclear plant does not.
- D) releases more than 100 times more radioactivity because of radioactive elements in coal.

Answer: <https://biology-forums.com/index.php?topic=259246>

Question 53

Based upon the studies that indicate the impacts of Michigan's bottle laws, Terrance worked to have such laws in his State of Illinois. This illustrates

- A) political action and stewardship.
- B) stewardship and sound science.
- C) sound science and political action.
- D) stewardship and sustainability.

Answer: <https://biology-forums.com/index.php?topic=257493>

Question 54

Which of the following best represents a loss of biological wealth?

- A) people fishing for catfish in a lake
- B) mining coal from deep underground mines
- C) the extinction of several beetle species
- D) a naturally occurring fire in a forest

Answer: <https://biology-forums.com/index.php?topic=258407>

Question 55

Compared to the long-term historical average rate of extinction, extinction rates today are

- A) lower.
- B) about the same.
- C) higher.
- D) changing from higher to lower rates in the past century.

Answer: <https://biology-forums.com/index.php?topic=258435>

Question 56

Social modernization involves many areas that revolve around

- A) sustainable environmental policy.
- B) the roles of women.
- C) economic development.
- D) technology.

Answer: <https://biology-forums.com/index.php?topic=258747>

Question 57

In the United States, the greatest environmental destruction results from the harvesting of

- A) oil.
- B) natural gas.
- C) coal.
- D) timber.

Answer: <https://biology-forums.com/index.php?topic=259207>

Question 58

Energy policies that promote the use of renewable-energy resources

- A) and oil and gas exploration are the most promising ways to address global climate change.
- B) and efficiency will automatically reduce the generation of greenhouse gases.
- C) increase the demand for fossil fuels and require the importation of oil to most countries.
- D) hurt the poorest families and discourage economic growth in developing countries.

Answer: <https://biology-forums.com/index.php?topic=259393>

Question 59

A self-amplifying reaction and a nuclear explosion in a nuclear power plant are prevented in large part by

- A) the regular addition of uranium-239 to the fuel.
- B) control rods that absorb extra neutrons.
- C) the production of plutonium-239.
- D) fuel rods that absorb tremendous amounts of heat.

Answer: <https://biology-forums.com/index.php?topic=259242>

Question 60

Cuba exemplifies a new direction in food production through

- A) programs to convert citizens to vegetarian diet.
- B) urban agriculture.
- C) using polyculture farms.
- D) Green Revolution high-yield grains.

Answer: <https://biology-forums.com/index.php?topic=259031>

Question 61

Using hydrogen to run a car is most like using

- A) electricity stored in a battery.
- B) natural gas as a source of fuel.
- C) biogas as a source of fuel.
- D) gasoline as a source of fuel.

Answer: <https://biology-forums.com/index.php?topic=259374>

Question 62

Recent U.S. energy policies, such as the 2007 Energy Independence and Security Act and the 2009 Recovery Act generally

- A) discourage continued exploration for fossil fuels.
- B) discourage the construction of new nuclear power plants.
- C) keep CAFE mileage standards for motor vehicles the same.
- D) encourage efficiency in lights, appliances, and buildings.

Answer: <https://biology-forums.com/index.php?topic=259219>

Question 63

Which of the following holds the highest levels of oxygen?

- A) warm water near the surface of a marsh in Everglades National Park in May
- B) warm water in a mud puddle along a dirt road in Nebraska in June
- C) cold flowing water in a stream in Ontario in April
- D) water at the base of a waterfall that is formed from melting snow in Oregon mountains in July

Answer: <https://biology-forums.com/index.php?topic=256941>

Question 64

Which of the following is an example of condensation?

- A) the loss of water from leaves of a tree
- B) the absorption of water by the roots of a plant
- C) the formation of clouds
- D) the formation of snow

Answer: <https://biology-forums.com/index.php?topic=258791>

Question 65

Indonesia has become a model for other rice growing nations because

- A) they switched from heavy pesticide spraying to IPM with help from the FAO.
- B) they have planted exclusively the improved GM golden rice.
- C) they have brokered cheap prices for importing U.S. made pesticides.
- D) rice is planted and grown in undisturbed ecosystems.

Answer: <https://biology-forums.com/index.php?topic=259117>

Question 66

A prairie grass may experience grazing herbivores, wildfires, droughts, deep snow, or blazing hot days in the summer. Yet, those prairie grasses alive

today are descendants of those that have survived these challenges and more. From an evolutionary perspective, these sorts of environmental challenges are identified as

- A) herbivory.
- B) predation.
- C) selective pressures.
- D) biological adaptations.

Answer: <https://biology-forums.com/index.php?topic=258284>

Question 67

On some islands, during the mating season, birds compete intensely for breeding sites. On these islands, these breeding sites represent a(n)

- A) limiting factor.
- B) zone of stress.
- C) environmental condition.
- D) limit of tolerance.

Answer: <https://biology-forums.com/index.php?topic=258164>

Question 68

Someone who argues that every species has a right to exist, undisturbed, on this planet is arguing for the

- A) institutional value of life.
- B) intrinsic value of life.
- C) finite value of life.
- D) economic value of life.

Answer: <https://biology-forums.com/index.php?topic=258413>

Question 69

All of the following affect the global rise in food prices, except

- A) the global price of oil.
- B) bad weather, especially drought.
- C) a marked decline in the demand for meat and animal products, especially in China.
- D) an increase in biofuel production, especially in the United States.

Answer: <https://biology-forums.com/index.php?topic=258981>

Question 70

To prevent the tipping point after which catastrophic environmental change will happen, what needs to be done?

- A) Carbon dioxide emissions must be eliminated in the next two years.
- B) Global greenhouse gas levels must peak no higher than 450 ppm and start declining by 2015.
- C) All greenhouse gases need to immediately be reduced below their levels in 1990.
- D) Carbon dioxide emissions must not rise more than 800 ppm, double the levels in the atmosphere today.

Answer: <https://biology-forums.com/index.php?topic=256701>

Question 71

One way to participate in the development of environmental policies is to become a member of an NGO. What is an NGO?

- A) NGO stands for nongovernmental organization.
- B) NGO stands for national geographic organization.
- C) NGO stands for neogeopolitical organization.
- D) NGO stands for natural global outlook.

Answer: <https://biology-forums.com/index.php?topic=258133>

Question 72

Globally, genetically modified crops are being used

- A) increasingly in developed nations but rarely in developing nations.
- B) increasingly in developing nations but rarely in developed nations.
- C) increasingly in developing and developed nations.
- D) less in developing and developed nations.

Answer: <https://biology-forums.com/index.php?topic=258985>

Question 73

Compared to all of the organisms in a phylum, organisms that share the same family

- A) share a more recent common ancestor.
- B) are more widely distributed in the world.

- C) have more genetic differences.
- D) are more likely to occur near the equator.

Answer: <https://biology-forums.com/index.php?topic=258142>

Question 74

Wars in the Middle East region in the past two decades have been associated with increased

- A) efforts to stop global terrorism wherever it exists in the world.
- B) demand for natural gas.
- C) U.S. interests in Middle East oil.
- D) interest in resolving the Palestinian Israeli border disputes.

Answer: <https://biology-forums.com/index.php?topic=259186>

Question 75

The pervasive alteration of global ecosystems is mainly the result of

- A) global climate change.
- B) increased frequency of wildfires in the past 500 years.
- C) human activities.
- D) the movement of continents by plate tectonics.

Answer: <https://biology-forums.com/index.php?topic=258528>

Question 76

The fastest-growing energy technology in the world is illustrated by

- A) a fuel cell.
- B) a hydroelectric dam.
- C) a pellet stove heating a home.
- D) solar collecting panels on rooftops.

Answer: <https://biology-forums.com/index.php?topic=259334>

Question 77

As of 2012, there are about 310,000,000 people living in the United States and about 3000 untreated SARA sites. If every person contributed just one dollar, about how many Superfund sites could we clean up?

- A) only 1
- B) about 15
- C) about 100
- D) about 1000

Answer: <https://biology-forums.com/index.php?topic=257303>

Question 78

The frequency of crown fires will decrease if

- A) forests are logged more frequently.
- B) smaller forest fires are allowed to burn naturally.
- C) deadwood is allowed to accumulate on the forest floors.
- D) the environment experiences less precipitation.

Answer: <https://biology-forums.com/index.php?topic=258373>

Question 79

Which one of the following soil horizons is least likely to be interacting directly with living organisms?

- A) A horizon
- B) O horizon
- C) E horizon
- D) C horizon

Answer: <https://biology-forums.com/index.php?topic=258880>

Question 80

Around the world, the greatest health risk to children under the age of five, especially in low income families and nations is

- A) infectious disease.
- B) lack of immunizations.
- C) being underweight.
- D) the loss of both parents.

Answer: <https://biology-forums.com/index.php?topic=256468>

Question 81

Fog is more likely to form when air temperatures are

- A) colder than the surrounding land.
- B) warmer than the surrounding land.
- C) the same as the surrounding land.
- D) rising.

Answer: <https://biology-forums.com/index.php?topic=258782>

Question 82

Which of the following contributes the most as a greenhouse gas?

- A) oxygen levels in the air
- B) water vapor levels in the air
- C) nitrogen levels in the air
- D) the amount of pollutants in ocean water

Answer: <https://biology-forums.com/index.php?topic=258788>

Question 83

Most warm desert biomes of the world are located

- A) about 20-30 degrees latitude north or south.
- B) in Asia.
- C) along a coastline.
- D) along the equator.

Answer: <https://biology-forums.com/index.php?topic=258355>

Question 84

Which one of the following would be the most practical way to reduce levels of photochemical smog in a city that frequently experiences this problem?

- A) changes in weather that produce more days of sunshine
- B) changes in weather that result in more days of fog
- C) reducing the amount of electricity generated using windmills
- D) reducing the number of automobiles that burn gasoline and the amount of evaporated gasoline

Answer: <https://biology-forums.com/index.php?topic=256757>

Question 85

Desertification is

- A) a natural process of succession that cycles from deserts to prairies to forests to deserts.
- B) the formation of dryland ecosystems in regions where temperatures have increased.
- C) the natural movement of deserts advancing into new regions due to shifts in wind direction.
- D) often the result of topsoil erosion leading to a permanent reduction in productivity.

Answer: <https://biology-forums.com/index.php?topic=258926>

Question 86

Which of the following strategies is the least costly and most environmentally sound way to address MSW management?

- A) recycle MSW as much as possible
- B) promote MSW reduction strategies
- C) compost organic components of MSW
- D) burn as much MSW as possible in WTE facilities

Answer: <https://biology-forums.com/index.php?topic=257195>

Question 87

Which of the following is not included in the calculation of the GNP of a coal mine?

- A) the cost of fuel to run the mining equipment
- B) the cost of health benefits for the workers
- C) the gradual breakdown and need for replacement of the equipment
- D) the depletion of coal from the mine

Answer: <https://biology-forums.com/index.php?topic=258091>

Question 88

The growing human population

- A) is best addressed by the conversion of ecosystems to more direct human uses.
- B) requires the management of ecosystems to better serve the needs of humans.
- C) will increase the need for ecosystem services.
- D) will require an increase in forests and a decrease in agricultural land.

Answer: <https://biology-forums.com/index.php?topic=258391>

Question 89

Which of the following illustrates an anthropogenic form of pollution?

- A) a large plume of ash from an erupting volcano
- B) large clouds of smoke from a forest fire caused by lightning
- C) sulfur dioxide released from a coal burning power plant
- D) sea salt aerosols in the air above an ocean

Answer: <https://biology-forums.com/index.php?topic=256742>

Question 90

A large tank truck carrying crude oil turns over on a major interstate highway, spilling its oil onto the grass at the edge of the road. To remove much of the oil from the soil, oxygen and special bacteria that consume oil are added to the soil. This form of cleanup illustrates

- A) bioremediation.
- B) phytoremediation.
- C) hydroponic intervention.
- D) remediation by incineration.

Answer: <https://biology-forums.com/index.php?topic=257298>

Question 91

Today, one of the continuing threats to the consumption of large quantities of fish and shellfish from around the world is exposure to toxic levels of

- A) lead.
- B) mercury.
- C) sodium.
- D) copper.

Answer: <https://biology-forums.com/index.php?topic=257265>

Question 92

Watering and fertilizing plants in your home provides them with components of the

- A) atmosphere and lithosphere.
- B) hydrosphere and biosphere.
- C) lithosphere and hydrosphere.
- D) biosphere and atmosphere.

Answer: <https://biology-forums.com/index.php?topic=258178>

Question 93

Individual restraints when using common-pool resources are necessary to prevent

- A) increases in the maximum sustainable yield.
- B) the tragedy of the commons.
- C) a shift from productive to consumptive use of resources.
- D) shifts in the carrying capacity of natural populations.

Answer: <https://biology-forums.com/index.php?topic=258545>

Question 94

Darwin and Wallace discovered natural selection without knowledge of an important field of biology that is very much a part of biological evolution. What essential part of biological evolution was poorly understood when they first presented natural selection to the world?

- A) geology
- B) genetics
- C) anatomy
- D) physiology

Answer: <https://biology-forums.com/index.php?topic=258285>

Question 95

A form of a biome is largely predicted by its

- A) diversity of plant and animal species.
- B) diversity of soil microorganisms.

- C) temperature and rainfall.
- D) distance from the ocean.

Answer: <https://biology-forums.com/index.php?topic=258153>

Question 96

Resource partitioning

- A) reduces interspecific competition and increases species diversity.
- B) reduces intraspecific competition and decreases species diversity.
- C) increases interspecific competition and decreases species diversity.
- D) increases intraspecific competition and increases species diversity.

Answer: <https://biology-forums.com/index.php?topic=258278>

Question 97

Globalization has been most effective addressing which of the following problems?

- A) the dispersion of exotic species to new locations in the world
- B) the spread of infectious organisms
- C) the challenges of producing enough food for the people of the world
- D) global climate change

Answer: <https://biology-forums.com/index.php?topic=258048>

Question 98

In the last 50 years, the greatest progress in addressing worldwide hunger and malnutrition came from the

- A) use of better transportation methods to export grain more efficiently.
- B) development and use of new varieties of high-yielding wheat and rice.
- C) reduced reliance on pesticides, herbicides, and chemical fertilizers.
- D) widespread use of sustainable irrigation methods.

Answer: <https://biology-forums.com/index.php?topic=258965>

Question 99

You are a newly appointed advisor in a government project to help move a developing country forward economically. With limited financial resources and staffing, which of the following would be your highest priority?

- A) create new businesses by partnering with developed nations
- B) help the government promote family planning throughout the country
- C) shift the focus of agriculture to that which will produce the highest yields of nutritious foods
- D) build up the ports of the country to increase the ability to import and export products

Answer: <https://biology-forums.com/index.php?topic=258762>

Question 100

Why are there so few ecosystems with more than four levels of consumers?

- A) because biomass decreases by about 90% at each trophic level moving up
- B) because top consumers compete with and kill each other with increasing population size
- C) because consumers at these highest trophic levels typically form social groups that stop reproducing at high densities
- D) because predators at the highest trophic levels simply are not intelligent enough to hunt other top predators

Answer: <https://biology-forums.com/index.php?topic=258340>

Question 101

Climatologists warn of a tipping point when global temperatures trigger unavoidable catastrophic events and sea levels rise more than 50 feet. What single event would cause the sea level to rise so greatly?

- A) increased precipitation over the continents
- B) melting of the Greenland Ice Sheet
- C) thermal expansion of the oceans
- D) melting of the polar ice cap

Answer: <https://biology-forums.com/index.php?topic=256699>

Question 102

The main difference between natural eutrophication and damaging cultural eutrophication is that in cultural eutrophication, the

- A) speed of nutrient enrichment is faster.
- B) oxygen levels tend to be higher.
- C) water tends to be clearer.
- D) submerged aquatic vegetation is completely suppressed.

Answer: <https://biology-forums.com/index.php?topic=257013>

Question 103

The maximum sustainable yield for most populations must be recalculated every year because

- A) commercial demand for the product is variable.
- B) the cost of producing products depends upon varying costs of labor.
- C) changing environmental conditions produce variations in carrying capacity.
- D) carrying capacities show large fluctuations even in stable environments of the environment is stable.

Answer: <https://biology-forums.com/index.php?topic=258543>

Question 104

The Food Stamp and Feeding America programs in the United States represents

- A) a personal level safety net.
- B) a family level safety net.
- C) a national level safety net.
- D) a global level safety net.

Answer: <https://biology-forums.com/index.php?topic=259011>

Question 105

Plans are underway to remove an old coal-fired power plant and build a modern WTE facility in its location that will generate the same amount of electricity. The coal was transported to the power plant by train, but the MSW will be trucked in to the WTE facility. People in the region are concerned about a waste incinerator near their city. Which one of the following concerns is correct? Unlike the coal-fired power plant, the WTE facility will

- A) be releasing mercury into the air.
- B) be releasing carbon dioxide into the air.
- C) release more pollution than the coal-fired power plant.
- D) result in more traffic on the roads.

Answer: <https://biology-forums.com/index.php?topic=257114>

Question 106

Globally, some of the worst radioactive storage leaks have been associated with

- A) military facilities in the United States and Russia.
- B) hospitals in Europe.
- C) nuclear power plants in China.
- D) university research facilities.

Answer: <https://biology-forums.com/index.php?topic=259263>

Question 107

Both the IPAT and ImpACT formulas predict that the lowest environmental impact is expected in human populations living in

- A) Africa.
- B) South America.
- C) North America.
- D) Western Europe.

Answer: <https://biology-forums.com/index.php?topic=258645>

Question 108

In the United States today,

- A) some game animals are still being hunted to extinction.
- B) most people do not need permission or licenses to hunt common game animals.
- C) property owners do not own the wildlife on their lands.
- D) turkey populations are threatened with extinction due to overhunting.

Answer: <https://biology-forums.com/index.php?topic=258492>

Question 109

A livable city is designed to permit people to

- A) park their cars conveniently near their homes.
- B) walk to most of the places that they want to go.
- C) have most of their needs brought to them.
- D) live in the least populated places.

Answer: <https://biology-forums.com/index.php?topic=257468>

Question 110

Which of the following are products of photosynthesis?

- A) carbon dioxide and water
- B) water and oxygen
- C) light and heat
- D) oxygen and sugar

Answer: <https://biology-forums.com/index.php?topic=258206>

Question 111

Many synthetic organic chemicals are concentrated in the fat of carnivores because

- A) the chemicals are non-biodegradable or persistent and highly soluble in lipids.
- B) the chemicals are highly soluble in water.
- C) these animals eliminate toxins from the body by storing them in fat.
- D) fat is able to break down toxins more effectively than the liver.

Answer: <https://biology-forums.com/index.php?topic=259073>

Question 112

The modern U.S. environmental movement began as a

- A) very partisan, divided effort, but now has broad bipartisan support.
- B) very partisan effort, which remains partisan and highly contested today.
- C) broad bipartisan effort, which remains in effect today.
- D) broad bipartisan effort but has fractured into a very contentious partisan debate with intense lobbying.

Answer: <https://biology-forums.com/index.php?topic=258129>

Question 113

In addition to global climate change, humans are negatively impacting coral reefs by

- A) destructive harvesting of fish for food or pets.
- B) using large amounts of coral rock to pave roads.
- C) destroying large regions of coral reefs for commercial aquaculture.
- D) introducing alien species that are thought to be more productive.

Answer: <https://biology-forums.com/index.php?topic=258586>

Question 114

The insects infesting this bag of rice are

- A) stored product pests that can live on almost no water and are resistant to pesticides.
- B) is a rare species occasionally caught in U.S. grain imports over the past decade.
- C) highly diet-specific, eating only certain strains of rice.
- D) unsightly, but of no economic or health significance.

Answer: <https://biology-forums.com/index.php?topic=259049>

Question 115

In the past 40 years, pesticide use has tripled yet pests still cause extensive damage to crops. Why has this increased use of pesticides not been more effective?

- A) The pesticides in use today are much less powerful due to government regulations.
- B) The pesticides available are no longer suited for the most common types of pests.
- C) Increases in ultraviolet radiation and global warming break down pesticides faster.
- D) The widespread use of pesticides has resulted in the evolution of pesticide resistant pests.

Answer: <https://biology-forums.com/index.php?topic=258962>

Question 116

The aesthetic losses from polluted air are reflected in the

- A) destruction of the stratospheric ozone.
- B) rising cases of asthma near industrial centers.
- C) degradation of outdoor stone sculptures and masonry.
- D) declining productivity of agriculture downwind of cities.

Answer: <https://biology-forums.com/index.php?topic=256829>

Question 117

Deciding to use a natural enemies approach to control the mites that infect her crops, a farmer purchases 10,000 ladybugs in the spring and spreads them over her 100 acre fields. This represents the use of natural

- A) predators.
- B) parasitoids.
- C) pathogens.
- D) plant-eaters.

Answer: <https://biology-forums.com/index.php?topic=259101>

Question 118

If some current trends and energy strategies continue and succeed over the next few decades, in fifty years you might be able to say that you witnessed the shift from

- A) an energy-consuming economy to an energy-producing economy.
- B) a wind-driven economy to a solar economy.
- C) an unsustainable fossil-fuel-driven economy to a sustainable hydrogen economy.
- D) a renewable energy- driven economy to a clean-burning natural gas economy.

Answer: <https://biology-forums.com/index.php?topic=259394>

Question 119

In general, temperatures along an ocean coastline vary less than temperatures 100 miles inland. This moderation of temperatures along coastlines is because

- A) as the oceans evaporate it cools off the coastlines.
- B) the sun shines more intensely away from the ocean coastlines.
- C) ocean temperatures change more quickly than air temperatures.
- D) ocean temperatures do not change as quickly as air temperatures.

Answer: <https://biology-forums.com/index.php?topic=256621>

Question 120

Which of the following industries is most similar to a natural ecosystem service?

- A) pest control
- B) telecommunications
- C) urban public transportation systems
- D) the postal system

Answer: <https://biology-forums.com/index.php?topic=258386>

Question 121

When exposure to a substance is below the threshold level, we expect to see

- A) no ill effects.
- B) acute but no chronic effects.
- C) chronic but no acute effects.
- D) short-term but no long-term effects.

Answer: <https://biology-forums.com/index.php?topic=257229>

Question 122

The decking materials used in this photograph best illustrate which of the following methods to reduce MSW?

- A) source reduction
- B) composting
- C) recycling
- D) WTE disposal

Answer: <https://biology-forums.com/index.php?topic=257155>

Question 123

In comparing green to brown economies,

- A) green economies will embrace technologies that reduce pollutants and increase efficiency.
- B) brown economies will favor sustainable systems and reverse damage to ecosystem services.
- C) both will continue with the race to develop more and more fossil fuel resources.
- D) green economies will stress rapid growth, while brown economies will stress human well-being.

Answer: <https://biology-forums.com/index.php?topic=258072>

Question 124

Over the past 60 years, as the suburban population of the United States doubled, the demand for petroleum products has

- A) declined.
- B) stayed about the same.
- C) doubled.
- D) tripled.

Answer: <https://biology-forums.com/index.php?topic=257420>

Question 125

Which of the following organisms is most likely a K-strategist?

- A) oak trees
- B) bacteria
- C) puffball mushrooms
- D) fruit flies

Answer: <https://biology-forums.com/index.php?topic=258247>

Question 126

Environmental policies

- A) may be cost-neutral or may come at a monetary cost.
- B) are always expensive, costing consumers and industry more money.
- C) rarely have a monetary cost associated with them.
- D) are paid for by tax dollars, only indirectly costing citizens for their implementation.

Answer: <https://biology-forums.com/index.php?topic=258114>

Question 127

Current levels of atmospheric carbon dioxide are

- A) remaining high but steady.
- B) nearly 400 ppm, higher than they have been in 800,000 years.
- C) fluctuating greatly but are starting to increase again after a downward trend in the 1990s.
- D) decreasing because surplus carbon dioxide is being absorbed by the arctic permafrost.

Answer: <https://biology-forums.com/index.php?topic=256652>

Question 128

Compared to standard fission reactors, fast-neutron reactors are

- A) less expensive to build.
- B) less expensive to operate.
- C) more efficient in fuel use.
- D) safer, requiring less security.

Answer: <https://biology-forums.com/index.php?topic=259290>

Question 129

The National Ecosystem Observance Network (NEON) is a long-term study of ecosystems to help us understand the effects of

- A) nutrient cycling in eroded soils.
- B) climate change and invasive species.
- C) primary succession on volcanic islands.
- D) efficiency of energy transfer between producers and consumers.

Answer: <https://biology-forums.com/index.php?topic=258378>

Question 130

A soil is found to have 50% sand, 30% silt, and 20% clay. This soil would be referred to as

- A) silty.
- B) sandy.
- C) clayey.
- D) loamy.

Answer: <https://biology-forums.com/index.php?topic=258878>

Question 131

The more than 100 nuclear power plants planned 30-40 years ago were never built in large part due to

- A) increasing incidents of terrorism directed against nuclear plants.
- B) decreased demand for electricity and increased costs of safety features in construction.
- C) pressing demand for electricity, which required simpler coal-fired power plants that could be built faster.
- D) budget constraints stemming from the 2008 recession.

Answer: <https://biology-forums.com/index.php?topic=259283>

Question 132

Which of the following industries would profit the most by providing financial support for a disaster risk reduction task force?

- A) clothing industry
- B) automobile industry
- C) insurance industry
- D) entertainment industry

Answer: <https://biology-forums.com/index.php?topic=256520>

Question 133

Good health in the modern world, with few cases of bacterial infection, is largely the result of

- A) the development and widespread use of new immunizations.
- B) clean water supplies and proper treatment of sewage.
- C) widespread use of bleach, antibiotics, and antibacterial soaps.
- D) frequent bathing and washing of clothing and dishes.

Answer: <https://biology-forums.com/index.php?topic=256930>

Question 134

In general, commuting to work after WWII was more common because of

- A) increased automobile ownership and the Highway Trust Fund.
- B) the elimination of most forms of public transportation in cities.
- C) increases in the populations of most cities.
- D) the widespread and rapid construction of light rail systems out to suburbs.

Answer: <https://biology-forums.com/index.php?topic=257388>

Question 135

The Neolithic Revolution is most clearly seen in human culture today in our use of

- A) natural wood products from national forests.
- B) furs from trapped wild animals.
- C) rivers for navigation and water supplies.
- D) modern agriculture to raise food crops.

Answer: <https://biology-forums.com/index.php?topic=258614>

Question 136

The Millennium Development Goals focus on

- A) the separate continents of the world, with each continent coordinating the efforts of its countries.
- B) international efforts to increase the economic development of the most impoverished countries.
- C) matters of health, reducing the spread of disease, and promoting diet and nutrition.
- D) ending extreme poverty and hunger all over the world.

Answer: <https://biology-forums.com/index.php?topic=258719>

Question 137

The National Park Service struggles to maintain a balance between

- A) hunting in national parks and ecotourism.
- B) mining and logging in national parks and protection of the unique ecosystems.
- C) protecting unique ecosystems and permitting public access.
- D) hunting and the development of resorts in national parks.

Answer: <https://biology-forums.com/index.php?topic=258591>

Question 138

Which one of the following is not a major source of invasive species in the world?

- A) deliberate introductions with specific intentions
- B) accidental introductions as parasites or pathogens on commercial species
- C) escape from zoos and animal parks
- D) escape from commercial aquaculture enclosures

Answer: <https://biology-forums.com/index.php?topic=258477>

Question 139

Which revolutions relied most heavily on fossil fuels?

- A) Medical Revolution and Industrial Revolution
- B) Environmental Revolution and Medical Revolution
- C) Green Revolution and Industrial Revolution
- D) Neolithic Revolution and Environmental Revolution

Answer: <https://biology-forums.com/index.php?topic=258625>

Question 140

In the United States, the electricity generated by hydropower is about

- A) equal to that generated using solar technologies.
- B) equal to that generated using wind technologies.
- C) twice that generated by solar and geothermal.
- D) twice as much as that generated by wind, solar, and geothermal.

Answer: <https://biology-forums.com/index.php?topic=259351>

Question 141

To best protect the biodiversity of the world when purchasing a pet you should

- A) purchase only captive bred species.
- B) identify pets that have been humanely harvested from the wild.
- C) purchase pets only from pet stores.
- D) collect your own animals to keep as pets.

Answer: <https://biology-forums.com/index.php?topic=258484>

Question 142

In the city of Boston, the prominent elevated expressway that once ran through the heart of the city has been moved to an underground system. The area that once was the expressway has now been converted into

- A) a flowing river through the city.
- B) a tree-lined promenade.
- C) a new light rail public transportation system.
- D) widespread public housing.

Answer: <https://biology-forums.com/index.php?topic=257475>

Question 143

The Long-Term Ecological Research sites (LTER) collectively focus on studying

- A) natural successional changes in ecosystems.
- B) the effects of various types of human disturbances to ecosystem function.
- C) how to make invasive species profitable for agriculture.
- D) creation of artificial soils for ecosystems lacking producers.

Answer: <https://biology-forums.com/index.php?topic=258379>

Question 144

When generally comparing life in suburban sprawl and life in the inner city, people living in the inner city

- A) walk more and shop locally.
- B) have larger homes and better city services.
- C) experience lower crime rates.
- D) enjoy lower-density residential living.

Answer: <https://biology-forums.com/index.php?topic=257422>

Question 145

The epidemiologic transition is largely a result of the

- A) Industrial Revolution.
- B) Medical Revolution.
- C) Green Revolution.
- D) Environmental Revolution.

Answer: <https://biology-forums.com/index.php?topic=258631>

Question 146

The levels of mercury are low in the fish eaten almost daily by people living near an ocean. For these people, bioaccumulation means that

- A) people eliminate most of the mercury they consume after a single day.
- B) mercury builds up in the fish and not the people.

C) mercury has been accumulating in their bodies for many years.
D) mercury and other heavy metals accumulate in the bottom of the ocean and not in the fish they eat.
Answer: <https://biology-forums.com/index.php?topic=259075>

Question 147

Endemic species are
A) well-established and show the least risk of extinction.
B) limited to just one location, such as an island.
C) widely distributed, found especially on large continents.
D) usually the dominant species within an ecosystem.
Answer: <https://biology-forums.com/index.php?topic=258429>

Question 148

In the United States in 2012, we produce about 1 barrel of oil for every
A) barrel of oil we export.
B) barrel of oil we import.
C) two barrels of oil we import.
D) ten barrels of oil we import.
Answer: <https://biology-forums.com/index.php?topic=259168>

Question 149

You construct a home in a hilly forested region in Wisconsin. Which of the following would most likely result in the least amount of soil erosion from the surrounding forested hillsides?
A) leave most of the forested region alone, in its natural state, and plant a few ornamental trees
B) clear all plants from the property and plow the soil
C) clear all plants from the hillside and plant garden crops such as cabbage and tomatoes and create a few small flower beds
D) keep the trees in place but clear all of the other vegetation and then rake the soil leaving it bare and unplowed
Answer: <https://biology-forums.com/index.php?topic=258922>

Question 150

Treating malaria with drugs is difficult because
A) no drug has yet been found that effectively treats malaria.
B) the malarial parasite has quickly evolved drug resistance.
C) it is impossible to distribute drugs to regions affected by malaria.
D) the best drugs cost thousands of dollars per person.
Answer: <https://biology-forums.com/index.php?topic=256497>

Question 151

Carcinogens' danger lies in their effect on
A) oxygen-carrying red blood cells.
B) the ability of the lining of the lungs to absorb oxygen.
C) DNA molecules inside cells.
D) the ability to absorb nutrients in the wall of the intestines.
Answer: <https://biology-forums.com/index.php?topic=256460>

Question 152

In North America, Halifax, Nova Scotia, will likely experience the least warming in the next 50 years due to global climate change because of
A) ocean thermal buffering.
B) increased rainfall.
C) warm polar melt water in the Atlantic Conveyor Current.
D) changing albedo of the soils in the area.
Answer: <https://biology-forums.com/index.php?topic=256662>

Question 153

Lakes in the midwestern United States that have experienced sustained acid precipitation over many years have gradually
A) increased their pH because of the buffering effects of limestone.
B) increased their pH because of the depletion of the buffering effects of limestone.
C) decreased their pH because of the buffering effects of aluminum.
D) decreased their pH because of the depletion of the buffering effects of limestone.
Answer: <https://biology-forums.com/index.php?topic=256835>

Question 154

Which of the following regions still struggles with severe cultural eutrophication?

- A) Lake Michigan
- B) water around the Florida Keys
- C) Lake Washington, near Seattle
- D) Chesapeake Bay

Answer: <https://biology-forums.com/index.php?topic=257033>

Question 155

The growth of the global fish harvest in the last 20 years has mostly been due to increases in

- A) aquaculture.
- B) the major rivers of the world.
- C) freshwater capture fisheries.
- D) saltwater capture fisheries.

Answer: <https://biology-forums.com/index.php?topic=258567>

Question 156

The process of fracking involves

- A) using underground explosives to break up gas-rich shale deposits.
- B) processes that are under the regulation of the 2005 Safe Drinking Water Act.
- C) using coal and petroleum as a chemical basis for producing natural gas.
- D) using high-pressure fluids to fracture gas-rich shale deposits far underground.

Answer: <https://biology-forums.com/index.php?topic=259202>

Question 157

Which one of the following statements about the carbon, phosphorus, and nitrogen cycles is true?

- A) The major source of carbon used by plants is the soil.
- B) The major source of nitrogen used by plants is the air.
- C) Phosphorus has no atmospheric component.
- D) Bacteria drive the phosphorus cycle.

Answer: <https://biology-forums.com/index.php?topic=258224>

Question 158

If the Millennium Development Goals are achieved by 2015,

- A) at least 30 developing countries will move into the developed category.
- B) more than 400 million people will be lifted out of extreme poverty.
- C) the population of the world will stop increasing.
- D) people in the developing world will all have basic medical coverage.

Answer: <https://biology-forums.com/index.php?topic=257976>

Question 159

Which of the following is placing stress on the endangered Ganges River dolphin?

- A) local people killing them for food
- B) pollution and competition for fish from fishermen
- C) invasive marine dolphins
- D) poaching for the pet trade

Answer: <https://biology-forums.com/index.php?topic=258399>

Question 160

Urban sprawl has resulted in

- A) wildlife habitat fragmentation.
- B) decreased reliance on fossil fuels.
- C) decreased production of greenhouse gases.
- D) increased dependence on family farms for food.

Answer: <https://biology-forums.com/index.php?topic=257417>

Question 161

In which of the following regions would we most expect to find industrial smog?

- A) in southern Florida in high tourist regions along the beaches
- B) in a farming region that primarily produces either cotton, soybeans, or corn
- C) around an industrial town that burns coal to generate electricity and make steel
- D) around a city that primarily relies on nuclear energy and public transportation

Answer: <https://biology-forums.com/index.php?topic=256755>

Question 162

Struggling with various pests attacking the garden every year, a neighbor suggests that next year they might plant a row of marigold flowers completely around the outside edge of the garden. Sure enough, the next year they did this and had fewer pests and better crops. This strategy represents

- A) cultural control.
- B) natural enemies control.
- C) genetic control.
- D) natural chemical control.

Answer: <https://biology-forums.com/index.php?topic=259098>

Question 163

Most amphibians in Georgia can tolerate the warm temperatures of summer. However, during one particularly dry year, when humidity was very low and temperatures were high, many of the frogs died. In this situation,

- A) temperature and humidity had synergistic and lethal effects.
- B) the frogs were pushed into their optimal habitats.
- C) the availability of food was probably the most important limiting factor.
- D) the environmental conditions were within their limits of tolerance.

Answer: <https://biology-forums.com/index.php?topic=258166>

Question 164

Which one of the following best represents a negative tipping point?

- A) logging trees and preventing their regrowth in a forest
- B) allowing natural wildfires to burn wherever they occur
- C) allowing resilience mechanisms to function after a wildfire
- D) relying upon bordering systems to repopulate a region that has been flooded

Answer: <https://biology-forums.com/index.php?topic=258377>

Question 165

For most environmental issues, the solutions are

- A) certain, and the science is certain.
- B) complex, but the science is certain.
- C) complex, and the science is insightful but tentative and evolving.
- D) clear and certain, and the science is insightful but tentative.

Answer: <https://biology-forums.com/index.php?topic=257504>

Question 166

This fire on the Cuyahoga River in 1969 most likely resulted from

- A) nonpoint source pollution from street and storm water runoff.
- B) point industrial source pollution.
- C) the uncontrolled growth of plants from fertilizer runoff.
- D) the failure of a city to treat its sewage before entering this river.

Answer: <https://biology-forums.com/index.php?topic=256926>

Question 167

Among the goals of the UNEP-supported Convention on Biological Diversity are

- A) government policies that subsidize the exploitation of natural resources.
- B) an army of UN conservation agents to control environmental hot spots.
- C) captive breeding programs for all species in hot spots.
- D) equitable sharing of genetic resources within each nation.

Answer: <https://biology-forums.com/index.php?topic=258509>

Question 168

The FAO's MPOWER campaign and FCTC program are a global efforts to

- A) decrease poverty in the world.

- B) decrease underweight children in the world.
- C) increase the influence of women in developing countries.
- D) reduce smoking primarily in developing countries.

Answer: <https://biology-forums.com/index.php?topic=256487>

Question 169

Most oil is recovered from an oil field

- A) by relying on the natural pressure of the system.
- B) by simply pumping it out of the ground.
- C) only after using secondary or enhanced procedures that first generate pressure.
- D) by pumping freshwater into the ground and making the oil float to the top.

Answer: <https://biology-forums.com/index.php?topic=259169>

Question 170

A zookeeper arrives at work and begins her day by filling up the coffeemaker with tap water. Washing some vegetables off in a sink, she prepares meals for the monkeys. Later in the day, she washes down the animals enclosures into the zoos sewage system and sprinkles the plants growing in a nearby garden. What did the zookeeper do that represents a consumptive use of water?

- A) using tap water for coffee
- B) using water to wash food
- C) using water for the garden
- D) using water to clean out a cage

Answer: <https://biology-forums.com/index.php?topic=258823>

Question 171

Almost all of the threats to biodiversity represented by the acronym HIPPO are related to the

- A) overpopulation of the world by humans.
- B) overuse of pesticides and herbicides.
- C) introduction of exotic species to new parts of the world.
- D) reliance upon fossil fuels to power human societies.

Answer: <https://biology-forums.com/index.php?topic=258482>

Question 172

Genetic diversity in a species does not arise from

- A) mutations.
- B) meiosis.
- C) crossover.
- D) need or want.

Answer: <https://biology-forums.com/index.php?topic=258293>

Question 173

The Ivory-Billed Woodpecker may have been found in deep woods of Missouri. Even though a few individuals may have survived, this may not be enough to avoid extinction of this species. What else must these few birds do to ensure the survival of the species?

- A) defend a territory against other bird species and predators
- B) maintain a viable breeding colony
- C) shift to a new source of food widely available in their region
- D) migrate to a better habitat that is more protected from people

Answer: <https://biology-forums.com/index.php?topic=258288>

Question 174

Widespread CHP technologies will result in

- A) increased reliance on fossil fuels.
- B) more on-site power generating systems in buildings.
- C) increased reliance on large power plants.
- D) a shift from fossil fuel to nuclear technologies.

Answer: <https://biology-forums.com/index.php?topic=259221>

Question 175

This weekend is the big dorm event, with many outdoor activities on campus. Student life and the sponsoring student organizations have much to plan. One group is assigned the job of picking up all litter after the event and collecting up all the waste aluminum beverage cans. Then the cans are to be taken to the local recycling center. These responsibilities are a practical example that best illustrates

- A) political action and stewardship.
- B) stewardship and sound science.
- C) political action and sound science.
- D) stewardship and sustainability.

Answer: <https://biology-forums.com/index.php?topic=257488>

Question 176

Forests that experience high levels of acid precipitation expose trees to soil that has

- A) less dissolved calcium and aluminum.
- B) more dissolved calcium and aluminum.
- C) more dissolved calcium but less dissolved aluminum.
- D) less dissolved calcium and more dissolved aluminum.

Answer: <https://biology-forums.com/index.php?topic=256834>

Question 177

The year 2008 revealed one of the risks of continued reliance on oil, when

- A) 52% of the oil refineries in the United States had to shut down.
- B) the Alaskan pipeline ruptured, reducing oil supplies in the United States by 37%.
- C) gasoline prices reached new highs.
- D) shipments of oil from overseas were reduced by 46%.

Answer: <https://biology-forums.com/index.php?topic=259198>

Question 178

In the years 2001-2010, the benefit to cost ratio

- A) always had more benefits than costs.
- B) always had more cost than benefits.
- C) usually had more costs than benefits.
- D) usually had more benefits than costs.

Answer: <https://biology-forums.com/index.php?topic=258124>

Question 179

The future use of electricity to power personal transportation largely depends on

- A) more efficient turbogenerators.
- B) finding more fossil fuel supplies.
- C) low-cost, lightweight batteries that can store large amounts of power.
- D) the development of small turbogenerators for automobiles.

Answer: <https://biology-forums.com/index.php?topic=259157>

Question 180

Anaerobic conditions will most likely be generated in a natural water system with

- A) high levels of DO that is contaminated by pollutants with high BOD values.
- B) low levels of DO that is contaminated by pollutants with high BOD values.
- C) high levels of DO that is contaminated by pollutants with low BOD values.
- D) low levels of DO that is contaminated by pollutants with low BOD values.

Answer: <https://biology-forums.com/index.php?topic=256947>

Question 181

The poor, interested in starting a small business in a developing country, are most helped by

- A) insurance brokers who reassure the bank that the new business does not pose a credit risk.
- B) banks that provide large loans that permit the new business to establish a solid foundation.
- C) the involvement of women in the new business, due to their reputation as good workers.
- D) the availability of microloans from a new kind of bank.

Answer: <https://biology-forums.com/index.php?topic=258767>

Question 182

With few exceptions, inorganic compounds do not have

- A) carbon-hydrogen bonds or carbon-carbon bonds.
- B) nitrogen-oxygen bonds or carbon-oxygen bonds.
- C) hydrogen-nitrogen bonds or carbon-oxygen bonds.
- D) potassium-sodium bonds or hydrogen-chlorine bonds.

Answer: <https://biology-forums.com/index.php?topic=258183>

Question 183

- A population that has been at or below replacement-level fertility for decades will
- A) stop growing or decrease in size.
 - B) produce large numbers of emigrants.
 - C) increase in size.
 - D) exceed its carrying capacity.

Answer: <https://biology-forums.com/index.php?topic=258682>

Question 184

- Although they have tremendous advantages, wind turbines
- A) cause thousands of bird deaths each year.
 - B) are known to dry out the soil in the surrounding region.
 - C) make the surrounding region unsuitable for farming or ranching.
 - D) generate greenhouse gases when producing electricity.

Answer: <https://biology-forums.com/index.php?topic=259355>

Question 185

- Between the 1950s and the 1980s, the "new forest"-management strategy of the Forest Service shifted from
- A) extracting resources to protecting the ecological health and diversity of forests.
 - B) protecting the ecological health and diversity of forests to extracting resources.
 - C) wilderness protection with no commercial logging to widespread commercial extraction.
 - D) widespread clear-cutting and reduction of total forested areas to a great expansion of forested land.

Answer: <https://biology-forums.com/index.php?topic=258596>

Question 186

- Incinerating organic wastes and placing the ash in landfills usually produces
- A) less settling.
 - B) more decomposition.
 - C) significantly more leaching.
 - D) increased methane production.

Answer: <https://biology-forums.com/index.php?topic=257108>

Question 187

- NGOs such as COSECHA in Central America
- A) work with village landowners in the roles of "farmer experimenters" to develop local sustainable agricultural techniques.
 - B) are sources for pesticides and chemical fertilizers to bring Green Revolution technologies to urban gardeners.
 - C) help local farmers find international markets for their produce.
 - D) have increased erosion through misguided advice on soil conservation.

Answer: <https://biology-forums.com/index.php?topic=258952>

Question 188

- In the 1990s, interests in oil production and energy conservation
- A) peaked, but they have declined in the years since.
 - B) were growing with renewed investments in windmills and solar technology.
 - C) resulted in additional drilling for oil and mining of coal reserves.
 - D) were low, following the decline in oil prices.

Answer: <https://biology-forums.com/index.php?topic=259178>

Question 189

- Increasing global demands for energy is
- A) increasing social stability in many countries, as people pull together to solve this challenge.
 - B) forcing dramatic switches to nuclear and tidal power, which do not contribute to global climate change.
 - C) renewing interests in preserving and protecting additional lands for conservation.
 - D) increasing political attention to oil production and global climate change.

Answer: <https://biology-forums.com/index.php?topic=256439>

Question 190

Much of the increasing global need for electricity can be met by solar sources because

- A) about 70% of electrical demand occurs when the sun is shining.
- B) modern battery technology now makes electrical storage cheap and efficient.
- C) only about one square meter of photovoltaic cells are needed to heat a home.
- D) even at night most solar power systems run at about 50% of normal capacity.

Answer: <https://biology-forums.com/index.php?topic=259344>

Question 191

Over the last 90 years in the United States,

- A) the total area of forests has been reduced by about 90%.
- B) the total area of forests has increased in size.
- C) most national forests have been clear-cut and converted to agriculture
- D) most national forests have been replaced by commercial development.

Answer: <https://biology-forums.com/index.php?topic=258594>

Question 192

The economic gap between developing and industrialized countries may best be narrowed by

- A) the adoption of democratic forms of government in developing countries.
- B) industrialized countries increasing shipments of food supplies to developing countries.
- C) industrialized countries harvesting more natural resources in developing countries.
- D) stabilizing population growth in developing countries.

Answer: <https://biology-forums.com/index.php?topic=257977>

Question 193

Subjective judgments about complex environmental phenomena often lead to

- A) the generation of new theories.
- B) the generation of new laws.
- C) controversies and unclear conclusions and public confusion.
- D) new legislation and government policies.

Answer: <https://biology-forums.com/index.php?topic=258032>

Question 194

Which is an example of produced capital?

- A) stocks and bonds
- B) laws and policies
- C) organically grown mangoes
- D) fisheries

Answer: <https://biology-forums.com/index.php?topic=258085>

Question 195

If a country experiences 6 births, 4 deaths, and 1 new immigrant every minute of a year, how will its population change in one year?

- A) the population will decline by about 100,000 people
- B) the population will remain steady
- C) the population will increase by about 1.5 million people
- D) the fertility rate is still needed to determine population changes

Answer: <https://biology-forums.com/index.php?topic=258672>

Question 196

Most of the world population growth in the near future will be in

- A) Europe.
- B) North America.
- C) developing countries.
- D) developed countries.

Answer: <https://biology-forums.com/index.php?topic=257975>

Question 197

Which one of the following represents a way to reduce point-source pollution contributing to cultural eutrophication?

- A) increase the use of vegetated waterways
- B) increase the use of contour farming and crop rotation
- C) remove nutrients from sewage-treatment effluents

D) include runoff detention ponds in subdivisions

Answer: <https://biology-forums.com/index.php?topic=257036>

Question 198

In the regions of the dead zone in the Gulf of Mexico just west of the Mississippi River delta, oxygen levels are

- A) highest at the bottom of the ocean, where the algae do not get enough sunlight to survive.
- B) highest at middle ocean depths, where plants produce the most oxygen.
- C) highest at the ocean surface, away from oxygen depleting bacteria.
- D) lowest at the ocean surface, where fertilizers bind to and remove the oxygen.

Answer: <https://biology-forums.com/index.php?topic=256902>

Question 199

The removal of the Bald Eagle from the Endangered Species List best illustrates good

- A) ecological restoration
- B) management of biodiversity hot spots
- C) private financial investment in conservation programs.
- D) stewardship reflected in wise environmental policies.

Answer: <https://biology-forums.com/index.php?topic=258512>

Question 200

The American beaver is *Castor canadensis*. Which of the following is accurate?

- A) The first part of the name, *Castor*, is the species name.
- B) The second part of the name, *canadensis*, is the genus name of beavers.
- C) Both parts of the name are necessary to designate the American beaver.
- D) The Eurasian Beaver, *Castor fiber*, belongs to the same species.

Answer: <https://biology-forums.com/index.php?topic=258143>

Question 201

When we compare urban blight in developed and developing countries, we typically find

- A) increasing population densities in both types of countries.
- B) decreasing population densities in both types of countries.
- C) increasing population densities in developed countries but declining population densities in developing countries.
- D) decreasing population densities in developed countries but increasing population densities in developing countries.

Answer: <https://biology-forums.com/index.php?topic=257449>

Question 202

If seven students tell a zoologist that they saw Bigfoot while hiking in an Idaho forest the past weekend, an interested zoologist would most likely

- A) return to that region to look for evidence of a Bigfoot.
- B) report the students' experience in a scientific journal.
- C) conduct experiments to show that the students were probably mistaken.
- D) ask the students to explain how they felt during the encounter.

Answer: <https://biology-forums.com/index.php?topic=258014>

Question 203

Which of the following is not a renewable resource?

- A) the sun beating down on a rain forest
- B) plants, such as bamboo and rice, growing in moist environments
- C) oil reserves, buried deep below the surface of the ground
- D) water flowing through a dam

Answer: <https://biology-forums.com/index.php?topic=256441>

Question 204

In a free-market society,

- A) the needs of the poor are best met by the interests of business.
- B) the interests of the poor, labor and business are the same.
- C) governments ensure the free flow of goods and services in international trade.
- D) the needs of the poor are often not met by business interests but by government programs.

Answer: <https://biology-forums.com/index.php?topic=258067>

Question 205

Our most recent understanding of the formation of tropospheric ozone requires the reduction of atmospheric levels of

- A) volatile inorganic compounds.
- B) carbon monoxide and volatile organic compounds.
- C) nitrogen oxides and carbon monoxide.
- D) nitrogen oxides and volatile organic compounds.

Answer: <https://biology-forums.com/index.php?topic=256864>

Question 206

The kinetic energy of water is at its greatest when

- A) water evaporates.
- B) ice forms.
- C) water flows down a river.
- D) snow falls.

Answer: <https://biology-forums.com/index.php?topic=258787>

Question 207

Which of the following are primary pollutants that frequently occur undetected in homes?

- A) radon and carbon monoxide
- B) soot, smoke, and salt aerosols
- C) peroxyacetyl nitrate and sulfur dioxide
- D) volatile organic compounds and peroxyacetyl nitrate

Answer: <https://biology-forums.com/index.php?topic=256786>

Question 208

Which one of the following least represents ecosystem capital?

- A) oil and natural gas reserves buried underground
- B) prairies and forests that reduce erosion
- C) introduced species that change environments
- D) natural populations of salmon in the oceans

Answer: <https://biology-forums.com/index.php?topic=258403>

Question 209

Weeds are commonly defined as any

- A) monocot that has flowers, grows closely to the ground, and consumes nutrients in the soil.
- B) dicot that blooms for more than one month of the year and competes with turf grasses for sunlight.
- C) plant that competes with crops, forests, or forage grasses for sunlight and nutrients.
- D) plant that is found growing outside of its native ecosystem.

Answer: <https://biology-forums.com/index.php?topic=259042>

Question 210

Planting rows of trees or shrubs around the periphery of a plowed field are long established farming practices that

- A) serve as water reserves in times of drought.
- B) attract insect pests away from the crops.
- C) increase wind erosion and decrease soil moisture.
- D) decrease wind erosion and increase soil moisture.

Answer: <https://biology-forums.com/index.php?topic=258930>

Question 211

Teaching people to use forests in a sustainable way to produce lawn furniture represents

- A) human capital affecting renewable resources, generating produced capital.
- B) social capital affecting nonrenewable resources, used in the creation of recycled capital.
- C) recycling of nonrenewable resources to generate social capital.
- D) knowledge assets impacting nonrenewable resources in the generation of social capital.

Answer: <https://biology-forums.com/index.php?topic=258086>

Question 212

Rain with a pH of 4.6 is

- A) about 10 times more basic than rain from non-polluted regions.
- B) typical of regions with very low pollution.
- C) about 10 times more acidic than rain from non-polluted regions.
- D) about 100 times more acidic than rain from non-polluted regions.

Answer: <https://biology-forums.com/index.php?topic=256794>

Question 213

Discriminatory trade practices that favor industrialized countries over developing countries are

- A) rare and are gradually being eliminated.
- B) not issues of concern to environmental scientists.
- C) ways that industrialized countries support sustainable resource management.
- D) the number one issue at every meeting of the World Trade Organization.

Answer: <https://biology-forums.com/index.php?topic=258044>

Question 214

Thailand's prospects for addressing current environmental problems are

- A) more hopeful because of slower population growth.
- B) worse because of the decline in population and decline in per capita income.
- C) very good because much less land is needed for agriculture.
- D) very good because air and water pollution have declined along with population growth.

Answer: <https://biology-forums.com/index.php?topic=258692>

Question 215

To meet the goals of sustainable agriculture, modern farming is turning to increased use of

- A) pesticides.
- B) herbicides.
- C) chemical fertilizers.
- D) contouring and crop rotation.

Answer: <https://biology-forums.com/index.php?topic=258951>

Question 216

Walking along a large city park on a hot summer day, you look for a cool resting place and sit down on a large rock under a willow tree, at the quiet edge of a stream. You have searched for and found an example of a

- A) microclimate.
- B) biome.
- C) landscape.
- D) population.

Answer: <https://biology-forums.com/index.php?topic=258361>

Question 217

The air you breathe into your lungs on a daily basis mostly consists of

- A) oxygen.
- B) carbon dioxide.
- C) nitrogen.
- D) hydrogen.

Answer: <https://biology-forums.com/index.php?topic=256732>

Question 218

The Hubbert peak accurately predicted

- A) maximum U.S. oil consumption in 1972.
- B) maximum U.S. oil consumption continuing to climb through today.
- C) maximum U.S. oil production about 1970.
- D) maximum U.S. oil production about 1995.

Answer: <https://biology-forums.com/index.php?topic=259172>

Question 219

During sublimation

- A) water molecules change their basic structure.
- B) water molecules condense to form a liquid.
- C) additional oxygen is added to water.

D) water changes from a solid directly to a gaseous form.

Answer: <https://biology-forums.com/index.php?topic=258175>

Question 220

The Endocrine Disruptor Screening Program

A) will test pesticides for their ability to cause cancer.

B) will examine all disease causing aspects of pesticides.

C) is being developed by the EPA and will screen chemicals for potential endocrine disruption.

D) has already identified and banned more than 300 pesticides that disrupt the endocrine system.

Answer: <https://biology-forums.com/index.php?topic=259071>

Question 221

According to the Clean Air Act and its amendments, very unsafe levels of air pollution will

A) include high levels of lead.

B) exceed ambient standards for human and environmental health.

C) contain excessive ozone.

D) include primary and secondary pollutants.

Answer: <https://biology-forums.com/index.php?topic=256838>

Question 222

In a Hadley cell,

A) warm air rises and cool air falls.

B) cool air rises and warm air falls.

C) warm water rises and cool water falls.

D) cool water rises and warm water falls.

Answer: <https://biology-forums.com/index.php?topic=256572>

Question 223

Only about 10 species have recovered significantly enough to be removed from the Endangered Species List. Recovery to this extent is limited because

A) the regulations protecting the species do not extend to private landowners.

B) hunting of protected species often continues even after the organisms are listed.

C) populations are already low and at high risk by the time they are listed.

D) protecting the habitat of an endangered species is not as critical as once assumed.

Answer: <https://biology-forums.com/index.php?topic=258499>

Question 224

Several students are discussing the role of governments and their ability to address major problems. With your experiences in environmental science, you speak up and note that one way the U.S. federal government has impacted our lives is by passing landmark legislation dramatically improving the quality of natural waterways. In fact, in 1972, one of the most important environmental laws ever passed was the

A) Lakes, Rivers, and Streams Act.

B) Water Pollution Control Act.

C) Rivers and Harbors Act.

D) Clean Water Act.

Answer: <https://biology-forums.com/index.php?topic=257041>

Question 225

Today, about 40% of the U.S. importation of oil comes from

A) Saudi Arabia.

B) Afghanistan and Iraq.

C) the Western Hemisphere, especially Canada.

D) China.

Answer: <https://biology-forums.com/index.php?topic=259187>

Question 226

The transportation within the Atlanta BeltLine will

A) focus on accommodating cars and parking.

B) eliminate all transportation except pedestrian traffic.

C) include pedestrian-friendly rail-based transit.

D) take public parks and convert them into low-cost parking structures.

Answer: <https://biology-forums.com/index.php?topic=257367>

Question 227

Severe wildfires followed by heavy rains have significantly eroded the soil of a formerly forested region. Which one of the following horizons is most likely intact with little disturbance?

- A) A horizon
- B) O horizon
- C) E horizon
- D) C horizon

Answer: <https://biology-forums.com/index.php?topic=258882>

Question 228

On a winter day, most automobiles keep the passengers warm by using heat generated by the engine. This use of the heat by-product from a gas engine is an example of

- A) non-fossil-fuel energy.
- B) CHP technology.
- C) nuclear power.
- D) a sustainable source of energy.

Answer: <https://biology-forums.com/index.php?topic=259224>

Question 229

These ecological changes in the abandoned pasture represent

- A) aquatic to terrestrial succession.
- B) primary succession.
- C) intermediate succession.
- D) secondary succession.

Answer: <https://biology-forums.com/index.php?topic=258365>

Question 230

In general, the movement toward sustainability is

- A) declining as interest in sustainable environmental policy declines.
- B) still a distant philosophical goal of the environmental movement.
- C) faced with growing opposition from economic interests.
- D) growing with greater interest from governments and businesses.

Answer: <https://biology-forums.com/index.php?topic=258049>

Question 231

The introduction of invasive North American ctenophores into the Black Sea and the Sea of Azov has

- A) given unexpected help to the fisheries there by providing a new food source.
- B) resulted in the extinction of the native European ctenophores.
- C) decimated fisheries because the invasive species competes for food with commercial fish species.
- D) crippled the tourist industry because ctenophores sting swimmers.

Answer: <https://biology-forums.com/index.php?topic=258314>

Question 232

Which of the following will increase the US demand for foreign oil?

- A) increasing the fuel efficiency of our transportation systems
- B) developing alternatives to fossil fuels
- C) decreasing the price of a gallon of gas
- D) using natural gas to power personal and public transportation

Answer: <https://biology-forums.com/index.php?topic=259196>

Question 233

Which of the following statements is not true of the sulfur cycle?

- A) Most sulfur is found in rocks and minerals.
- B) Unlike nitrogen and carbon, organisms do not require or contain sulfur.
- C) Atmospheric sulfur dioxide is contributed when humans burn fossil fuels.
- D) a natural source of sulfate in soils is weathering of rocks.

Answer: <https://biology-forums.com/index.php?topic=258226>

Question 234

- Compared to inorganic fertilizers, organic fertilizers such as
- A) cow manure applied to a field increase the chances of nutrient leaching.
 - B) cow manure applied to a field reduce the chances of nutrient leaching.
 - C) liquid ammonia sprayed on a field decrease the chances of nutrient leaching.
 - D) liquid ammonia sprayed on a field increase the formation of humus.

Answer: <https://biology-forums.com/index.php?topic=258894>

Question 235

- The actual fission reactions that release energy in a nuclear power plant are about
- A) two-thirds from uranium-235 and one-third from uranium-239.
 - B) one-third from uranium-235 and two-thirds from uranium-239.
 - C) two-thirds from uranium-235 and one-third from plutonium-239.
 - D) one-third from uranium-235 and two-thirds from plutonium-239.

Answer: <https://biology-forums.com/index.php?topic=259241>

Question 236

- Treadle pumps
- A) work like a step exercise machine.
 - B) pump groundwater from just a few feet below the surface to a field.
 - C) are in use in eastern Asia and parts of Africa.
 - D) All of the above.

Answer: <https://biology-forums.com/index.php?topic=258855>

Question 237

- None of the three most popular methods for treating sludge and converting it into fertilizer is able to produce a final treated product that is
- A) biodegradable.
 - B) sterile.
 - C) able to be used as a fertilizer.
 - D) free of heavy metals and non-biodegradable toxins.

Answer: <https://biology-forums.com/index.php?topic=256988>

Question 238

- This image represents a good example of a
- A) biotic community.
 - B) species.
 - C) biome.
 - D) landscape.

Answer: <https://biology-forums.com/index.php?topic=258155>

Question 239

- Millions of human lives could be saved if we developed environmental policies that
- A) control outbreaks of autoimmune diseases.
 - B) prevent the degradation of the environment and encouraged sustainable use.
 - C) provide food and shelter for the developing nations of the world.
 - D) promote the construction of dams and power plants in the least developed parts of the world.

Answer: <https://biology-forums.com/index.php?topic=258102>

Question 240

- Concerned about the use of so many toxic chemicals in her life, Monica tells her friend Amber that she wishes there was something she could do. Amber responds, "Well, one thing that you can do is purchase the new, less toxic forms of
- A) household cleaning products."
 - B) furniture refinishing products."
 - C) reformulated gasoline."
 - D) common medicines, such as aspirin and acetaminophen."

Answer: <https://biology-forums.com/index.php?topic=257357>

Question 241

The NIMBY objectors to the Cape Cod wind project felt that

- A) the project would not produce the power needed
- B) the wind turbines were not big enough
- C) the tall wild turbines were "visual pollution" marring the scenic beauty of the Cape.
- D) New England has no current need for more energy.

Answer: <https://biology-forums.com/index.php?topic=259306>

Question 242

Good stewardship of nuclear power is best promoted by

- A) government oversight and international cooperation.
- B) independent decisions of the countries of the world.
- C) oversight provided by the companies that own the facilities.
- D) limiting regulations and requirements.

Answer: <https://biology-forums.com/index.php?topic=259300>

Question 243

Which of the following most accurately indicates the recent changes that have occurred in China? As the Chinese economy has grown,

- A) industrial pollution and poverty have increased while literacy and public health have declined.
- B) the use of coal and electricity have increased while social mobility and literacy have declined.
- C) literacy and public health have improved while industrial pollution and poverty have declined.
- D) industrial pollution and literacy have increased while poverty and public health have declined.

Answer: <https://biology-forums.com/index.php?topic=258055>

Question 244

Which one of the following hazardous-waste disposal methods includes large amounts of evaporation into the air?

- A) a secure landfill
- B) a deep-well injection
- C) an on-site surface impoundment
- D) a best-demonstrated available technology

Answer: <https://biology-forums.com/index.php?topic=257280>

Question 245

Which of the following would do the most harm to the productivity of a garden?

- A) killing the fungi and bacteria in the soil
- B) killing the nematodes and insects in the soil
- C) adding humus and sandy loam to the soil
- D) plowing into the soil the stalks from last year's crops

Answer: <https://biology-forums.com/index.php?topic=258915>

Question 246

Over the past 25 years, South Korea has enjoyed three times the economic growth of Pakistan, primarily because of

- A) higher rates of school enrollment and literacy.
- B) greater government investment in technology and infrastructure.
- C) more sustainable environmental policies.
- D) greater efforts to combat malaria and other infectious disease.

Answer: <https://biology-forums.com/index.php?topic=258749>

Question 247

In the region surrounding Orlando, Florida, effluent produced by secondary wastewater treatment is

- A) routed through special oxidizing chambers before entering the St. Johns River system.
- B) routed through wetlands before entering the St. Johns River system.
- C) used to produce drinking water for the city of Orlando.
- D) used for livestock drinking water in the nearby farms.

Answer: <https://biology-forums.com/index.php?topic=257002>

Question 248

The common definition of pest

- A) is based on the negative impacts of an organism on human activities.
- B) varies depending upon whether the organism is an herbivore or carnivore.
- C) varies widely in the world depending upon the particular culture.

D) is limited to organisms that are plants.

Answer: <https://biology-forums.com/index.php?topic=259041>

Question 249

Biodiversity in the world is

- A) declining and is most negatively impacting the poorest people of the world.
- B) declining and is most negatively impacting the wealthiest people of the world.
- C) increasing but is negatively impacting the poorest people of the world.
- D) increasing but is negatively impacting the wealthiest people of the world.

Answer: <https://biology-forums.com/index.php?topic=258425>

Question 250

If you rode a helium balloon from the earth's surface to the top of the stratosphere, you would notice that the temperatures

- A) dropped steadily as you increased your altitude.
- B) increased steadily as you increased your altitude.
- C) dropped and then started to rise in the stratosphere about halfway up your trip.
- D) rose and then started to drop in the mesosphere about halfway up your trip.

Answer: <https://biology-forums.com/index.php?topic=256585>

Question 251

Plants grow as new organic molecules are formed by plant cells. Most of the carbon in the newly created organic molecules of these plants ultimately came from

- A) carbon dioxide in the air.
- B) carbon dioxide released during the production of plant sugars.
- C) proteins and carbohydrates absorbed by the roots of the plants.
- D) carbon compounds absorbed from water.

Answer: <https://biology-forums.com/index.php?topic=258210>

Question 252

Ultralight aircraft played an important part in the recovery of whooping cranes by

- A) spotting potential predators from the sky.
- B) identifying unknown populations of these birds from the sky.
- C) leading flocks of these birds on their seasonal migrations.
- D) distributing vital supplies of food to distant populations during severe winter storms.

Answer: <https://biology-forums.com/index.php?topic=258501>

Question 253

When you exercise, you can feel your body getting warmer, perhaps even starting to sweat. Why does exercise make you warmer?

- A) Glucose oxidation speeds up during exercise to power muscular activities, and as a byproduct, extra heat is generated.
- B) Your body is using anaerobic respiration which releases more heat than oxidation.
- C) More glucose is synthesized requiring additional heat.
- D) Your body is using fermentation to produce alcohol, which takes heat to break down.

Answer: <https://biology-forums.com/index.php?topic=258212>

Question 254

Environmental public policy

- A) diminishes the wealth of a nation.
- B) transfers wealth from polluters to pollution controllers and to less polluting companies.
- C) is bad for the economy.
- D) has significantly increased unemployment in the United States.

Answer: <https://biology-forums.com/index.php?topic=258116>

Question 255

Which of the following federal actions immediately after WWII might have significantly decreased urban sprawl during that post-war period?

- A) the construction of many new light rail commuter systems out to suburbs
- B) grants to support dramatic improvements in city systems and services
- C) low cost home loans and tax deductions for mortgage interest
- D) construction of new highways using taxes raised through the sale of motor fuels

Answer: <https://biology-forums.com/index.php?topic=257393>

Question 256

According to the Environmental Protection Agency, the greatest current water-pollution challenge in the United States is

- A) sewage-treatment effluent.
- B) agricultural runoff.
- C) fluids released from oil wells.
- D) discharge of substances from factories.

Answer: <https://biology-forums.com/index.php?topic=257044>

Question 257

The charitable organization Heifer International uses donations to provide people in developing nations with farm animals to help feed hungry families. Heifer International is therefore contributing to

- A) the Green Revolution.
- B) subsistence farming.
- C) the Industrial Revolution.
- D) high impact farming.

Answer: <https://biology-forums.com/index.php?topic=258969>

Question 258

A vegetarian friend urges the elimination of all animal husbandry throughout the world. Arguing that the world's population of farm animals contributes to global climate change, diseases, and pollution, the friend suggests that we would all be better off by not eating meat. Listening carefully, you agree with many of these points. However, you note that

- A) pastoralists practice sustainable animal husbandry, an important part of nutrition in parts of the developing world.
- B) the production of grains produces even more greenhouse gases.
- C) raising vegetables and other plants for food is more damaging to the environment.
- D) the global production of grains would need to increase if everyone relied on plants for food.

Answer: <https://biology-forums.com/index.php?topic=258976>

Question 259

Large stocks of fish in the great lakes represent

- A) nonrenewable natural capital.
- B) renewable natural capital.
- C) intangible capital.
- D) produced capital.

Answer: <https://biology-forums.com/index.php?topic=258084>

Question 260

Humidity is highest when relative humidity is

- A) high at low temperatures.
- B) high at high temperatures.
- C) low at high temperatures.
- D) low at low temperatures.

Answer: <https://biology-forums.com/index.php?topic=258792>

Question 261

Biological nutrient removal ultimately converts most of the organic materials in wastewater into

- A) oxygen, ammonia, and carbon dioxide.
- B) nitrogen, water, and carbon dioxide.
- C) sugars, vitamins, and minerals.
- D) proteins and carbohydrates.

Answer: <https://biology-forums.com/index.php?topic=256980>

Question 262

Analysis of bedbug control options has revealed that

- A) a single pesticide can give effective control.
- B) infestations do not respond to any type of control.
- C) adequate control will pose serious health risks to people.
- D) a combination of several methods will be needed to have effective control.

Answer: <https://biology-forums.com/index.php?topic=259039>

Question 263

According to the UN Population Division and a significant 2004 paper reviewing 69 studies on world human population and carrying capacity, the world population of humans will exceed carrying capacity in about the year

- A) 2014.
- B) 2024.
- C) 2050.
- D) 2100.

Answer: <https://biology-forums.com/index.php?topic=258637>

Question 264

Which of the following would cause a rising water table?

- A) increased precipitation
- B) increased runoff
- C) decreasing infiltration
- D) groundwater depletion exceeding the recharge rate

Answer: <https://biology-forums.com/index.php?topic=258832>

Question 265

The 2007 Panel on Climate Change (IPCC) reported that global climate change is

- A) certain and it is very likely that humans are to blame.
- B) likely and it is possible that humans are to blame.
- C) happening in some regions of the world and in some places people may be to blame.
- D) still unclear and the evidence and the causes of change require additional studies.

Answer: <https://biology-forums.com/index.php?topic=256594>

Question 266

While the duckweed continues to cover the water's surface of this pond undergoing eutrophication, it is most likely that the water clarity will

- A) be high and the growth of submerged aquatic vegetation will increase.
- B) be high but the growth of submerged aquatic vegetation will decrease.
- C) decrease and the growth of submerged aquatic vegetation will increase.
- D) decrease and the growth of submerged aquatic vegetation will decrease.

Answer: <https://biology-forums.com/index.php?topic=257018>

Question 267

_____ play a crucial role in returning nutrients essential for plant growth to the soil.

- A) Chemical decomposers
- B) Herbivores
- C) Parasites
- D) Producers

Answer: <https://biology-forums.com/index.php?topic=258325>

Question 268

Which of the following best illustrates the spirit of stewardship?

- A) lobbying government officials to increase the drilling for offshore oil
- B) selecting a source of energy based upon the maximum yield of tax dollars
- C) converting automobiles from gasoline to natural gas as a new source of fuel
- D) promoting the recycling of paper and aluminum on university campuses

Answer: <https://biology-forums.com/index.php?topic=258009>

Question 269

Despite its many problems, one of the advantages of open burning of MSW is

- A) the generation of natural gas to warm buildings.
- B) a reduction in air pollution.
- C) a reduction in the volume of MSW.
- D) the generation of agricultural fertilizer.

Answer: <https://biology-forums.com/index.php?topic=257068>

Question 270

The gap between oil production and consumption in the United States is generally

- A) staying about the same.
- B) widening.
- C) shrinking.
- D) shifting without a clear pattern that seems to relate to prices.

Answer: <https://biology-forums.com/index.php?topic=259181>

Question 271

Raising young children who crawl about the floor, Mom does not want to spray chemicals of any sort in or around the home. However, she is well aware of West Nile virus spread by mosquitoes and Lyme disease spread by ticks. Therefore, Mom decides to take a different strategy. Carefully examining and repairing the window screens, window enclosures, and doorways, she closes up any cracks or tears where bugs might get in. This loving mother is protecting her children by using

- A) cultural control.
- B) natural enemies control.
- C) genetic control.
- D) natural chemical control.

Answer: <https://biology-forums.com/index.php?topic=259097>

Question 272

Malnutrition and undernourishment in the developing world most often kill

- A) children from lowered resistance to disease.
- B) the elderly who already have low resistance to disease.
- C) pregnant women who are already stressed by pregnancy.
- D) men who are employed in positions of hard labor.

Answer: <https://biology-forums.com/index.php?topic=259022>

Question 273

An isolated village of about 1,000 people in a developing nation may be hunting and raising only enough crops to feed themselves. Such a village may have fewer than half their children surviving to adulthood. This struggling village primarily reflects the result of which revolution?

- A) Industrial Revolution
- B) Medical Revolution
- C) Green Revolution
- D) Neolithic Revolution

Answer: <https://biology-forums.com/index.php?topic=258628>

Question 274

The concept of biological fitness is based on two separate abilities. These are the ability to

- A) survive and reproduce.
- B) find a mate and have offspring.
- C) defend against enemies and find food.
- D) produce and defend a family.

Answer: <https://biology-forums.com/index.php?topic=258286>

Question 275

The abundant formation of hydroxyl radicals in the atmosphere

- A) removes many common pollutants from the stratosphere.
- B) removes many common pollutants from the troposphere.
- C) promotes the formation of ozone that protects against damaging ultraviolet light.
- D) promotes the formation of nitrous oxides that in turn lower levels of carbon dioxide.

Answer: <https://biology-forums.com/index.php?topic=256748>

Question 276

The decline of the polar ice caps because of increasing temperatures at the poles will

- A) increase the amount of fresh water available for human use.
- B) decrease the largest reserve of fresh water on Earth.
- C) increase the amount of fresh water available in aquifers.
- D) decrease global sea levels.

Answer: <https://biology-forums.com/index.php?topic=258778>

Question 277

In the lower 48 states of the United States, the pressure to convert new land into crop production has

- A) decreased, and the use of erosion-prone land has been reduced.
- B) decreased, but the use of erosion-prone land has increased.
- C) increased, but the use of erosion-prone land has been reduced.
- D) increased, and the use of erosion-prone land has been increased.

Answer: <https://biology-forums.com/index.php?topic=258960>

Question 278

The most important outcome for ecosystem management is

- A) ecological sustainability.
- B) economic productivity.
- C) recreational use of managed regions.
- D) opportunities to harvest natural resources.

Answer: <https://biology-forums.com/index.php?topic=258392>

Question 279

The EPA's policy-making process relies heavily on

- A) risk management.
- B) pollution control.
- C) a tertiary analysis.
- D) cost-risk analysis.

Answer: <https://biology-forums.com/index.php?topic=256541>

Question 280

Suspicious that their household drinking water from a well was somehow being contaminated with gasoline, a family living in a farmhouse investigated possible sources of groundwater contamination. Sure enough, the underground storage tanks for gasoline at a nearby filling station were leaking.

Promising to pay to fix the problem, the station owners sealed the gas tank and pumped out the contaminated groundwater. After several months of rain, the groundwater supplies were restored and the water in the well was safe to drink. This situation illustrated an example of

- A) reverse osmosis refinement.
- B) maximum containment remuneration.
- C) groundwater remediation.
- D) well-water containment.

Answer: <https://biology-forums.com/index.php?topic=257289>

Question 281

Current data from satellite measurements of temperature in the troposphere, despite errors in early data, reveal

- A) remarkable agreement with surface temperatures.
- B) sharp differences with surface temperatures.
- C) no correlation between temperature and levels of greenhouse gases.
- D) a general cooling of global atmospheric temperatures.

Answer: <https://biology-forums.com/index.php?topic=256645>

Question 282

Rachel Carson's impact on environmental policy change was aided by support from

- A) the American Medical Association.
- B) the EPA.
- C) industries producing DDT.
- D) public opinion.

Answer: <https://biology-forums.com/index.php?topic=256447>

Question 283

A lake that averages 20 feet of water depth experiences extreme eutrophication. In this lake, we would expect to find

- A) abundant fish, high oxygen levels, and very clear water.
- B) abundant fish, high oxygen levels, but very cloudy water.
- C) fewer fish than usual, lower oxygen levels, and very clear water.
- D) some dead fish, low numbers of living fish, low oxygen levels, and very cloudy water.

Answer: <https://biology-forums.com/index.php?topic=257008>

Question 284

A new gravel road is cut into the side of a mountain just north of Anchorage, Alaska. As the snow melts in June, the fine gravel and sand of the

disturbed region quickly tumbles into the bottom of nearby streams. The addition of this fine gravel and sand changes the stream by

- A) decreasing the number of plants and animals that live there.
- B) decreasing the number of plants but increasing the number of animals that live there.
- C) increasing the number of plants but decreasing the number of animals that live there.
- D) increasing the number of plants and animals that live there.

Answer: <https://biology-forums.com/index.php?topic=256953>

Question 285

The global temperature pattern seen in this figure

- A) reflects the results of the destruction of the ozone layer.
- B) suggests that mitigation of carbon dioxide is urgently needed.
- C) reveals a year-by-year increase in temperature every year since 1980.
- D) shows no clear trend in temperature change for more than 120 years.

Answer: <https://biology-forums.com/index.php?topic=256606>

Question 286

Despite potential problems, the general trend in the production and use of transgenic organisms in Europe, the United States, and the developing world is towards

- A) decreased production of bioengineered foods and nonfood crops.
- B) increased production of bioengineered foods and nonfood crops.
- C) decreased production of bioengineered foods but increased production of nonfood crops.
- D) increased production of bioengineered foods but decreased production of nonfood crops.

Answer: <https://biology-forums.com/index.php?topic=258997>

Question 287

In the United States, legal immigration

- A) provides about 35% of U.S. population growth.
- B) permits more people to enter the United States than the combination of immigrants entering all other nations.
- C) favors skilled applicants, creating a brain drain in other countries.
- D) All of the above.

Answer: <https://biology-forums.com/index.php?topic=258661>

Question 288

The species shown in photo (a) has

- A) become invasive and threatens the species in photo (b).
- B) become naturalized and lives in equilibrium with the species in photo (b).
- C) evolved in the last 10,000 years and is now being threatened by the species in photo (b).
- D) a very small population and is the primary food of the animal in photo (b).

Answer: <https://biology-forums.com/index.php?topic=258311>

Question 289

Species are most likely to be conserved by humans if they have

- A) instrumental value.
- B) institutional value.
- C) intrinsic value.
- D) aesthetic value.

Answer: <https://biology-forums.com/index.php?topic=258410>

Question 290

Weeds are types of

- A) pathogens that spread disease to humans or between plants.
- B) animals or plants that can cause disease.
- C) plants that can rapidly spread through lightly airborne seeds.
- D) pests that may threaten our health or compete with our food.

Answer: <https://biology-forums.com/index.php?topic=259043>

Question 291

Which of the following is a secondary pollutant?

- A) sulfur dioxide
- B) radon

- C) carbon monoxide
- D) sulfuric acid

Answer: <https://biology-forums.com/index.php?topic=256774>

Question 292

Some developers in your town want to fill in an estuary to build a condominium with a wonderful view of a beach. They argue that building and selling apartments in the condominium will add jobs and income to the region. However, educated citizens ask about the cost of the development in lost ecosystem functions. They argue that in their local community, the jobs added in construction may be offset by expected losses in

- A) water quality and the local fishing industry.
- B) natural gas production in the region.
- C) lumber production for the regional timber industry.
- D) UVB protection.

Answer: <https://biology-forums.com/index.php?topic=258385>

Question 293

In general, it is rare for a parasite to

- A) feed on a host.
- B) kill its host.
- C) spread from one host to another.
- D) compete with other parasites for access to a host.

Answer: <https://biology-forums.com/index.php?topic=258264>

Question 294

About fifteen years after the 1973 oil crisis,

- A) the consumption of oil in the United States doubled.
- B) U.S. automobiles were no more fuel efficient than before.
- C) world oil production exceeded consumption and prices fell sharply.
- D) world oil prices skyrocketed.

Answer: <https://biology-forums.com/index.php?topic=259176>

Question 295

Protection of biodiversity around the world requires

- A) basic science to guide public policies and laws that then must be enforced.
- B) changes to social structure and political organizations that drive basic science.
- C) new technologies and techniques that are still being developed.
- D) the introduction of new species into new regions to spread a species range.

Answer: <https://biology-forums.com/index.php?topic=258489>

Question 296

Terrance recognized the importance of laws that dramatically increase the recycling of glass and aluminum, reducing energy costs, the demand for raw materials, and pressure on landfills. Even more, bottle laws reduce litter and the dangers of broken glass for people and wildlife. By recognizing these positive impacts of bottle laws and feeling the need to act responsibly, Terrance was illustrating

- A) obedience.
- B) stewardship.
- C) loyalty.
- D) trust.

Answer: <https://biology-forums.com/index.php?topic=257494>

Question 297

Some drugs that are currently used with great success to treat cancer and viral infections

- A) are derived from wild plants.
- B) represent the intrinsic value of wild species.
- C) are derived from cultivars that combine together traits of several other plants.
- D) were discovered as mutations in the development of new cultivars of wheat.

Answer: <https://biology-forums.com/index.php?topic=258421>

Question 298

An average person might consume 2,000 Kilocalories of food in one day. This is enough energy to heat up how many 2-liter bottles of liquid water from 0 degrees Celsius to 100 degrees Celsius (just reaching the boiling point of water, but not turning the water into steam)?

- A) 1

- B) 5
- C) 10
- D) 20

Answer: <https://biology-forums.com/index.php?topic=258190>

Question 299

Waste-to-energy (WTE) facilities

- A) increase the mass of MSW entering landfills.
- B) require new collecting and hauling procedures not easily adopted by the public.
- C) consume much more energy than they release, adding to the overall costs.
- D) better isolate and remove toxic or hazardous substances in MSW.

Answer: <https://biology-forums.com/index.php?topic=257112>

Question 300

Adding fertilizer to most aquatic systems results in

- A) increased growth of phytoplankton and hypoxic conditions.
- B) increased growth of phytoplankton and hyperoxic conditions.
- C) decreased growth of phytoplankton and hypoxic conditions.
- D) decreased growth of phytoplankton and hyperoxic conditions.

Answer: <https://biology-forums.com/index.php?topic=256898>

Question 301

Introduced species are a growing problem primarily because of

- A) global trade and travel.
- B) plate tectonics.
- C) the speed at which new species form.
- D) global climate change.

Answer: <https://biology-forums.com/index.php?topic=258307>

Question 302

The development of Golden Rice 2 promises to help meet the challenges of

- A) malnutrition.
- B) overnourishment.
- C) undernourishment.
- D) obesity.

Answer: <https://biology-forums.com/index.php?topic=259021>

Question 303

Many people in the developing world who depend on rice in their diet suffer from diseases related to deficiencies of

- A) calories and vitamin D.
- B) calories and fiber.
- C) vitamin A and iron.
- D) vitamins C and E.

Answer: <https://biology-forums.com/index.php?topic=259000>

Question 304

Because of the RCRA, disposal facilities for solid wastes on land must

- A) be sanctioned by permit.
- B) pretreat toxic wastes to convert them to forms that will not leach.
- C) track the generation, movement, and disposal of all wastes.
- D) do all of these activities.

Answer: <https://biology-forums.com/index.php?topic=257327>

Question 305

Which of the following would we expect on the leeward sides of high mountain ranges?

- A) rainforests
- B) deserts
- C) wetlands
- D) deciduous forests

Answer: <https://biology-forums.com/index.php?topic=258798>

Question 306

Which one of the following statements is true?

- A) Forest ecosystems contain about half as much carbon as is contained in the atmosphere as carbon dioxide.
- B) Most deforestation occurs in North America and Europe.
- C) Forests cover about 10% of the total land area of Earth.
- D) Globally, the amount of forests protected as reserves or parks is on the increase.

Answer: <https://biology-forums.com/index.php?topic=258556>

Question 307

Which one of the following is classified as a reduced-risk pesticide?

- A) chlordane
- B) DDT
- C) Mimic, a synthetic variation of ecdysone
- D) mercury

Answer: <https://biology-forums.com/index.php?topic=259120>

Question 308

Which of the following slows the global hydrologic cycle?

- A) increased atmospheric pollution with aerosol particles
- B) increased use of pesticides
- C) increased evaporation from land surfaces
- D) global warming

Answer: <https://biology-forums.com/index.php?topic=258816>

Question 309

Density-independent factors such as earthquakes and hurricanes are

- A) abiotic factors that maintain a population near equilibrium.
- B) biotic factors that maintain a population near equilibrium.
- C) abiotic factors that are not involved in maintaining a population near its equilibrium.
- D) biotic factors that are not involved in maintaining a population near its equilibrium.

Answer: <https://biology-forums.com/index.php?topic=258253>

Question 310

All of the following are major problems in addressing worldwide hunger today, except

- A) insufficient production of crops.
- B) the distribution of available food.
- C) profitability of food industries in developed nations.
- D) decreased yields due to widespread droughts and other environmental impacts of food production.

Answer: <https://biology-forums.com/index.php?topic=258953>

Question 311

Most developing countries

- A) have just completed the demographic transition.
- B) have experienced or are in the initial phases the epidemiologic transition but not the fertility transition.
- C) have experienced the fertility transition but not the epidemiologic transition.
- D) have not yet begun to enter even the initial phase of the demographic transition.

Answer: <https://biology-forums.com/index.php?topic=258687>

Question 312

Natural organic compounds typically consist of some combination of carbon, hydrogen, and

- A) oxygen, nitrogen, phosphorus, and/or sulfur.
- B) nitrogen, lead, mercury, and/or sulfur.
- C) sulfur, oxygen, zinc, and/or chloride.
- D) oxygen, nitrogen, sodium, and/or potassium.

Answer: <https://biology-forums.com/index.php?topic=258182>

Question 313

Non-condensing GHGs are of greatest concern because they

- A) take many decades to be removed from the atmosphere.
- B) deplete stratospheric ozone.
- C) react very quickly with other atmospheric gases.
- D) react with one another to produce even more potent GHGs.

Answer: <https://biology-forums.com/index.php?topic=256677>

Question 314

Nuclear bombs rely upon

- A) a domino effect that causes the nuclear fission of uranium-235 in less than a second.
- B) a domino effect that causes the nuclear fusion of uranium-235 in less than a second.
- C) an instantaneous fission of uranium-235 under extreme pressures.
- D) an instantaneous fusion of uranium-235 under extreme pressures.

Answer: <https://biology-forums.com/index.php?topic=259239>

Question 315

Which of the following represents the greatest conservation of the genetic bank?

- A) the human genome center, analyzing the components of the human genome
- B) the MSB and Svalbard seed banks storing seeds of thousands of plants from around the world
- C) the field of proteomics, investigating the many ways the proteins function in organisms
- D) all of the varieties of corn, wheat, and rice currently serving as crops

Answer: <https://biology-forums.com/index.php?topic=258420>

Question 316

Smart-growth efforts are being used with great benefit to growing communities. Which one of the following is a principle of smart-growth?

- A) To allow higher density populations, all available spaces in a town should be used for housing.
- B) Expanding suburbs should have physical boundaries that limit further spread.
- C) Expanding towns should carefully segregate commercial and residential buildings.
- D) Existing stores and light industry must move outside of the town to free up space for housing.

Answer: <https://biology-forums.com/index.php?topic=257429>

Question 317

To meet current USDA organic food standards, 100% organic certified foods may be

- A) genetically engineered.
- B) irradiated.
- C) fertilized with sewage sludge.
- D) meat, grains, or vegetables.

Answer: <https://biology-forums.com/index.php?topic=259116>

Question 318

The energy released from the sun and other stars comes from

- A) the fusion of helium into hydrogen.
- B) the fusion of hydrogen into helium.
- C) the fission of helium into hydrogen.
- D) the fission of hydrogen into helium.

Answer: <https://biology-forums.com/index.php?topic=259294>

Question 319

The use of nuclear power throughout the world is generally

- A) uneven, ranging from 0 to 74 %, depending on the country.
- B) uneven, ranging from 3-22% in different countries around the world.
- C) consistent, with most developed countries generating most of the electricity with nuclear power.
- D) steadily declining, with most countries planning on phasing out their nuclear plants.

Answer: <https://biology-forums.com/index.php?topic=259234>

Question 320

Pesticide resistant insects develop from the widespread use of insecticides because

- A) pesticides cause mutations in the insects that make them resistant.
- B) pesticides increase the biotic potential of some insects.
- C) insects learn to avoid the places where insecticides have been applied.
- D) over many generations, the naturally resistant pests survive and increase in number.

Answer: <https://biology-forums.com/index.php?topic=259056>

Question 321

Secondary air pollutants are formed by

- A) the evaporation of solvents and gasoline.
- B) the incomplete combustion of fuels.
- C) primary pollutants reacting with other compounds in the atmosphere.
- D) radioactive substances such as radon reacting with primary pollutants.

Answer: <https://biology-forums.com/index.php?topic=256780>

Question 322

Most of the successful urban plans that have made cities more livable have designed space to be centered on

- A) efficient automobile traffic.
- B) the movements and interactions of people.
- C) housing and places for people to park their cars.
- D) oceans as a common source for water and mode of transportation.

Answer: <https://biology-forums.com/index.php?topic=257463>

Question 323

The WHO 2002 conclusion on the importance of risk assessment in modern medicine was most like the proverb,

- A) "Actions speak louder than words."
- B) "There is safety in numbers."
- C) "An ounce of prevention is worth a pound of cure."
- D) "Do unto others as you would have them do unto you."

Answer: <https://biology-forums.com/index.php?topic=256524>

Question 324

The production of hydrogen to power cars in the United States requires

- A) nearly a million gallons of freshwater each day.
- B) a net input of energy.
- C) fusion reactions typical of nuclear power plants.
- D) fermentation using water and sugars.

Answer: <https://biology-forums.com/index.php?topic=259376>

Question 325

The type of forest fire in this photo

- A) makes crown fires more likely in the burned regions.
- B) significantly harms grasses and lodgepole pines in the burned regions.
- C) increases the frequency of scrub oaks and other broad-leaved species in the burned regions.
- D) promotes nutrient cycling in the burned regions.

Answer: <https://biology-forums.com/index.php?topic=258380>

Question 326

Solid-waste disposal prior to 1960 was mostly about the

- A) sanitary treatment of sewage from cities and towns.
- B) safe storage of radioactive wastes.
- C) removal of topsoil contaminated by chemical spills.
- D) disposal of household and commercial garbage.

Answer: <https://biology-forums.com/index.php?topic=257052>

Question 327

Integrated pest management focuses on

- A) eliminating crop damage by using preventative techniques.
- B) eliminating crop damage by using only cultural techniques.
- C) maintaining crop damage below the economic threshold using preventative techniques.
- D) maintaining crop damage below the economic threshold using broad-spectrum pesticides.

Answer: <https://biology-forums.com/index.php?topic=259113>

Question 328

A reduction in the volume of paper going to landfills has been brought about by

- A) newspapers going out of business in most large cities.
- B) electronic communications.
- C) the invention of biodegradable paper.
- D) the replacement of organic paper with plastic "paper" in many businesses.

Answer: <https://biology-forums.com/index.php?topic=257126>

Question 329

In the past 50 years, the global production and availability of grains has

- A) run out in only 3 years.
- B) been about the same on each of the major inhabited continents.
- C) eliminated most of the need for the production of oilseeds.
- D) remained at about 70 days, but importation is still required by most of the developing regions.

Answer: <https://biology-forums.com/index.php?topic=259007>

Question 330

Which of the following is the strongest argument for recycling plastics?

- A) Plastics burn hot and with little ash in WTE incinerators.
- B) Plastics do not contribute to leachate in landfills.
- C) Plastics do not generate biogas in landfills.
- D) Plastics are produced from the fossil fuel petroleum.

Answer: <https://biology-forums.com/index.php?topic=257170>

Question 331

Tired of the traffic jams downtown, Roxanne decides that she wants to move out to the suburbs. Then she won't have to spend so much time in the car. One major problem with this decision is that on average, people living in suburbs

- A) have to pay much more money for housing.
- B) spend much more time walking to their destinations.
- C) are faced with higher crime rates that add many more problems.
- D) spend as much time commuting as people living closer to the city.

Answer: <https://biology-forums.com/index.php?topic=257424>

Question 332

Globally, an imbalance in grain productivity requires some countries to import grain from places where production exceeds consumption. Which of the following would benefit the most from the use of biotechnology or other techniques to increase grain production in their region?

- A) Africa
- B) North America
- C) Western Europe
- D) Argentina and Brazil

Answer: <https://biology-forums.com/index.php?topic=259005>

Question 333

London is located farther north than Toronto, yet average temperatures in January are higher in London than Toronto. London tends to be warmer in January because

- A) Toronto gets more snow in January.
- B) warm ocean currents flow past London.
- C) people in London burn more fossil fuels.
- D) it gets more sunshine than Toronto in January.

Answer: <https://biology-forums.com/index.php?topic=256626>

Question 334

Globalization is largely the result of

- A) new forms of ground transportation.
- B) worldwide electronic communication.
- C) increased exploration into unpopulated regions of the world.
- D) major new discoveries of natural resources.

Answer: <https://biology-forums.com/index.php?topic=258046>

Question 335

Hardened soils that have minimal infiltration and aeration may form cryptogamic crusts

- A) consisting of algae, lichens, and mosses that stabilize the soil surface.
- B) consisting of algae, lichens, and mosses that continue to erode the soil surface.
- C) characterized by large stones and gravel called desert pavement.
- D) representing accumulations of salts that prevent plant and fungal growth at the soil surface.

Answer: <https://biology-forums.com/index.php?topic=258925>

Question 336

The greatest potential for sustainable growth in fisheries is in

- A) the major rivers of the world.
- B) aquaculture.
- C) freshwater capture fisheries.
- D) saltwater capture fisheries.

Answer: <https://biology-forums.com/index.php?topic=258566>

Question 337

Ozone levels can increase in the troposphere when

- A) VOCs are present.
- B) PANs react with atmospheric nitrogen to form ozone.
- C) VOCs release ozone when they are broken apart by solar energy.
- D) more carbon dioxide is available to contribute additional oxygen for ozone formation.

Answer: <https://biology-forums.com/index.php?topic=256790>

Question 338

From a global sustainability perspective, economic production

- A) is the sum of all photosynthesis in the biosphere and the resulting natural products.
- B) consists of all of the natural products and natural resources in the world, which are available for harvesting by humans.
- C) is the process of converting the natural world to the manufactured world.
- D) represents the summed gross national products of all industrialized nations of the world.

Answer: <https://biology-forums.com/index.php?topic=258077>

Question 339

One of the general concerns about the widespread use of transgenic organisms is the

- A) spread of these transgenic traits to other organisms.
- B) need to apply more pesticides to crops and plow the soil twice a year.
- C) reduced yields that result from using bioengineered organisms.
- D) pressure to bring more land into agricultural production.

Answer: <https://biology-forums.com/index.php?topic=258994>

Question 340

In a large city experiencing urban blight, we would be surprised to find

- A) a declining tax base.
- B) depreciating real estate.
- C) improving schools.
- D) increasing crime.

Answer: <https://biology-forums.com/index.php?topic=257444>

Question 341

Environmental pollutants such as PCB's contaminate oceans and other aquatic systems. Plankton in the ocean become contaminated by PCB's and pass this along through the food chain. A pregnant woman has been cautioned to limit her consumption of food that may be high in PCBs. If she consumes food from a nearby contaminated ocean, we would expect that the most contaminated foods would be

- A) shrimp.
- B) clams.
- C) fish that eat shrimp.
- D) kelp and other ocean plants.

Answer: <https://biology-forums.com/index.php?topic=258345>

Question 342

Technologies to reduce sulfur dioxide emissions are

- A) widely used in U.S. power plants that burn coal.
- B) not possible with available technology.

C) costly and experimental, but promising.
D) less important than technologies to reduce carbon dioxide pollution.
Answer: <https://biology-forums.com/index.php?topic=259212>

Question 343

Since the 1980s, the United States has
A) increased its oil discoveries and production and today imports about 35% of its oil.
B) seen its oil production keep pace with consumption.
C) been steadily consuming more oil and producing less, importing 68% of its oil.
D) improved the efficiency of its technology and now imports no foreign oil.
Answer: <https://biology-forums.com/index.php?topic=259174>

Question 344

In general, since its creation in 1980, the Superfund cleanup program has resulted in
A) fewer than 10 sites receiving all the necessary cleanup.
B) only about 100 sites receiving all the necessary cleanup.
C) about a thousand sites receiving all the necessary cleanup.
D) the necessary cleanup of more than 99% of all Superfund sites.
Answer: <https://biology-forums.com/index.php?topic=257301>

Question 345

As we consider the pressing demands of a growing human population, ecosystem services must be
A) given proper economic value and not taken for granted.
B) perceived as free.
C) understood as unlimited resources.
D) managed for maximum economic output.
Answer: <https://biology-forums.com/index.php?topic=258394>

Question 346

Domestic and feral house cats in the United States
A) are a keystone species, controlling potentially huge populations of rodents.
B) provide the necessary population control for pigeons, starlings and cowbirds.
C) kill more than a billion small mammals and birds annually.
D) spread viral infections to native carnivores.
Answer: <https://biology-forums.com/index.php?topic=258478>

Question 347

You are enjoying a salad with lettuce coated by mushrooms, tomatoes, carrots, and bits of bacon from grain-fed pigs. Your salad represents
A) producers, consumers, and decomposers.
B) only producers and consumers.
C) only producers and carnivores.
D) only producers.
Answer: <https://biology-forums.com/index.php?topic=258335>

Question 348

Which of the following are used by individual farmers to generate biogas for their own use?
A) sugar, water, and anaerobic bacteria
B) cornstalks, ethanol, and aerobic bacteria
C) manure, water, and anaerobic bacteria
D) manure, water, and aerobic bacteria
Answer: <https://biology-forums.com/index.php?topic=259361>

Question 349

When a windmill turns to generate electricity, the amount of kinetic energy input in the process
A) equals the amount of electrical energy produced.
B) is less than the amount of electrical energy produced.
C) is more than the amount of electrical energy produced.
D) is unrelated to the amount of electrical energy produced.
Answer: <https://biology-forums.com/index.php?topic=258194>

Question 350

- In general, most ecosystems in the world have
- A) remained relatively unchanged for millions of years.
 - B) been impacted by human activities.
 - C) experienced increased ecosystem capital because of human activities.
 - D) already been significantly harmed by global climate change.

Answer: <https://biology-forums.com/index.php?topic=258527>

Question 351

- Air descending, leeward from the top of a mountain is most likely to
- A) decrease in temperature and evaporate water from the soil.
 - B) increase in temperature and evaporate water from the soil.
 - C) decrease in temperature and result in precipitation.
 - D) increase in temperature and result in precipitation.

Answer: <https://biology-forums.com/index.php?topic=258817>

Question 352

- Hundreds of millions of years ago, in the formation of fossil fuels , large amounts of
- A) organic detritus were trapped underground.
 - B) nitrogen were trapped in rocks during extensive volcanic activity.
 - C) sodium were used to form ancient fossils, seashells, and limestone.
 - D) phosphate gas were added to the atmosphere through erosion and evaporation.

Answer: <https://biology-forums.com/index.php?topic=258218>

Question 353

- Which of the following would most reduce current US reliance on foreign imports of oil?
- A) switching to energy efficient light bulbs
 - B) continuing to raise the CAFE requirements for all vehicles
 - C) replacing any dishwasher or refrigerator more than 10 years old with new energy efficient models
 - D) turning computers and lights off when not in use

Answer: <https://biology-forums.com/index.php?topic=259218>

Question 354

- Which of the following is the least biodegradable?
- A) paper bag from a grocery store
 - B) leaves and branches piled up on a hillside
 - C) glass beer bottle
 - D) polyethylene wrapper that was used to package Campbell's soup

Answer: <https://biology-forums.com/index.php?topic=259402>

Question 355

- The consequences to the Fukushima Daiichi nuclear disaster in 2011 include
- A) more than 12,000 fatalities from acute radiation exposure.
 - B) severe meltdown effects because no water was available to cool the damaged reactors.
 - C) Japan revising or cancelling its plans to build more nuclear power plants.
 - D) even a year after the disaster, there is no electricity to the plants and radiation release is increasing.

Answer: <https://biology-forums.com/index.php?topic=259227>

Question 356

- Which of the following types of forest management is closest to sustainable forestry principles?
- A) shelter-wood cutting and selective cutting
 - B) selective cutting and clear-cutting
 - C) clear-cutting and shelter-wood cutting
 - D) clear-cutting followed by burning the cut areas

Answer: <https://biology-forums.com/index.php?topic=258560>

Question 357

In one year, a population of 10,000 people experiences a birth rate of 220 and a death rate of 170 people. The annual percent increase is

- A) 5% and assumes no immigration and 1% emigration.
- B) 0.5% and assumes no migration.
- C) 3.9% and includes 5% immigration.
- D) 50% and excludes immigration and emigration.

Answer: <https://biology-forums.com/index.php?topic=258684>

Question 358

One of the greatest risks of diarrheal disease outbreaks in industrialized countries, for example, from Salmonella, results from

- A) poorly trained public health inspectors in the food industry.
- B) contamination in the mass production of food.
- C) the increased demand for organic products.
- D) the addition of preservatives in foods.

Answer: <https://biology-forums.com/index.php?topic=256492>

Question 359

Over the past two decades, the number of landfills has decreased significantly because

- A) of increased recycling and increases in the size of landfills.
- B) the total amount of MSW produced in the U.S. has decreased by about 50%.
- C) increasing amounts of MSW are burned, reducing the need to bury it.
- D) increasing amounts of MSW are being used to manufacture biogas.

Answer: <https://biology-forums.com/index.php?topic=257099>

Question 360

Current ethanol production in Brazil is different from ethanol production in the United States. In Brazil, they primarily use

- A) special enzymes that break down cellulose into sugars.
- B) ethanol to heat homes and generate electricity.
- C) sugar cane instead of corn.
- D) natural gas to generate ethanol.

Answer: <https://biology-forums.com/index.php?topic=259371>

Question 361

According to current NAAQS standards, particulates

- A) less than 2.5 micrometers in diameter have the greatest impact on human health.
- B) greater than 10 micrometers in diameter have the greatest impact on human health.
- C) should not be regulated by the EPA based on size.
- D) all regardless of size when released into the air drops out within 15 minutes and thus is quite safe.

Answer: <https://biology-forums.com/index.php?topic=256842>

Question 362

Without regular cleanups, the tendency of a home or dorm room to become increasingly messy generally reflects

- A) the Law of Conservation of Energy.
- B) an increase in entropy.
- C) the loss of heat in any energy conversion.
- D) the conversion of kinetic energy into potential energy.

Answer: <https://biology-forums.com/index.php?topic=258201>

Question 363

In the more livable modern cities of the world, you are now less likely to see

- A) parking lots.
- B) automobiles.
- C) highways.
- D) parking lots, automobiles, and highways.

Answer: <https://biology-forums.com/index.php?topic=257472>

Question 364

Which of the following have been used by at least one state?

- A) bottle laws that require a deposit on every bottle sold
- B) banning the disposal of yard waste in landfills
- C) banning the disposal of cathode ray tubes (CRTs) in landfills
- D) All of these approaches have been used by at least one state.

Answer: <https://biology-forums.com/index.php?topic=257197>

Question 365

From an ecological economist's perspective, without sustainability, as economies grow,

- A) gross national product grows too.
- B) natural resources are renewed.
- C) the natural world is depleted.
- D) natural ecosystems are replenished.

Answer: <https://biology-forums.com/index.php?topic=258079>

Question 366

Pesticide resistant insects would

- A) have evolved more slowly if the pesticides were used in just a few regions.
- B) not have evolved if even more pesticide had been used.
- C) have evolved if a different type of pesticide was used each year.
- D) have evolved if an herbicide had been used instead of a pesticide.

Answer: <https://biology-forums.com/index.php?topic=259057>

Question 367

DDT quickly became widely used because it

- A) was toxic to many types of insects.
- B) seemed nontoxic to humans.
- C) was inexpensive.
- D) All of the choices are correct.

Answer: <https://biology-forums.com/index.php?topic=259050>

Question 368

As of 2012, it is clear that public opinion

- A) strongly endorses the anti-environmental attitude of the current Congress.
- B) trusts the EPA much more than Congress to oversee the national environment.
- C) wants Congress to repeal the Endangered Species Act and disband the EPA.
- D) views global climate change as a political hoax.

Answer: <https://biology-forums.com/index.php?topic=258134>

Question 369

The water conditions indicated in this figure reveal a body of water that most likely has

- A) high levels of nutrients and high levels of oxygen.
- B) low levels of nutrients and low levels of oxygen.
- C) high levels of nutrients and low levels of oxygen.
- D) low levels of nutrients and high levels of oxygen.

Answer: <https://biology-forums.com/index.php?topic=257015>

Question 370

The use of pesticides crosses the economic threshold when the cost of

- A) crop damage is more than the cost of the pesticide.
- B) pesticide is more than the cost of the crop damage.
- C) harvesting the crop is more than the cost of raising the crop.
- D) cost of raising the crop is more than the cost of the crop damage.

Answer: <https://biology-forums.com/index.php?topic=259110>

Question 371

Many predator-prey relationships do not result in the complete elimination of the prey because

- A) predators cannot catch all of the healthy adults.
- B) the predator population is limited by the availability of territorial space.
- C) the prey do not provide enough nutrition.
- D) the prey populations are always far below carrying capacity.

Answer: <https://biology-forums.com/index.php?topic=258267>

Question 372

Which of the following illustrate the liquidation of ecosystem capital by a developing country?

- A) increasing agricultural output to produce wheat for export
- B) permitting bridges and roads to degrade without repair
- C) expanding the logging of exotic hardwood forests to provide lumber for furniture in developed countries
- D) All of the above.

Answer: <https://biology-forums.com/index.php?topic=258734>

Question 373

Primary productivity of the open oceans is very limited because of

- A) the shortage of water.
- B) the shortage of light.
- C) the shortage of nutrients.
- D) low temperature.

Answer: <https://biology-forums.com/index.php?topic=258362>

Question 374

Determining a discrete threshold level of exposure is most difficult for

- A) all carcinogens.
- B) most acids.
- C) all salts.
- D) almost all bases.

Answer: <https://biology-forums.com/index.php?topic=257227>

Question 375

Concerned about the exposure of children to chlorine, staff running a public pool measure the exact concentration of the chlorine currently in the pool water. However, assuming the amount of water in the pool is unchanging, to accurately determine the dose of chlorine exposure, the staff must also know

- A) the age of each child in the pool.
- B) the manufacturer of the chlorine.
- C) how long each child is in the pool.
- D) why each child is in the pool.

Answer: <https://biology-forums.com/index.php?topic=257223>

Question 376

Given the eventual response to ban DDT, the late 1960s most likely represented which stage of the policy life cycle?

- A) control
- B) implementation
- C) formulation
- D) recognition

Answer: <https://biology-forums.com/index.php?topic=258110>

Question 377

In a chemical reaction,

- A) atoms are destroyed.
- B) atoms are rearranged to form different kinds of matter.
- C) new atoms are formed.
- D) new elements are formed.

Answer: <https://biology-forums.com/index.php?topic=258168>

Question 378

Regions where humans produce high levels of aerosols and dust will most likely experience

- A) less rainfall, reduced solar radiation to the Earth's surface, and cooler temperatures.
- B) less rainfall, increased solar radiation to the Earth's surface, and higher temperatures.
- C) more rainfall, increased soil nutrients, and reduced solar radiation to the Earth's surface.
- D) more rainfall, decreased soil nutrients, and increased solar radiation to the Earth's surface.

Answer: <https://biology-forums.com/index.php?topic=258815>

Question 379

Consumers that eat plants rely upon

- A) chemical energy stored in organic molecules produced by photosynthesis.

- B) kinetic energy stored in organic molecules produced by photosynthesis.
- C) photosynthesis to convert potential energy to kinetic energy.
- D) entropy to generate heat to drive kinetic processes in their bodies.

Answer: <https://biology-forums.com/index.php?topic=258204>

Question 380

Pesticide exposure has been shown to cause diseases of the

- A) endocrine and immune systems.
- B) muscular and skeletal systems.
- C) pancreas and kidneys.
- D) ears and eyes.

Answer: <https://biology-forums.com/index.php?topic=259068>

Question 381

Which one of the following best represents the relationship between cell respiration and photosynthesis?

- A) Complimentary; one produces chemical energy in the form of glucose while the other releases energy from glucose.
- B) Antagonistic; while one is operating, the other is inhibited.
- C) Neutral; they operate in different organisms or at different times in the same organism.
- D) Competing; both use the same limited resources.

Answer: <https://biology-forums.com/index.php?topic=258214>

Question 382

Chronic obstructive pulmonary disease (COPD) is the fourth leading cause of death in the United States. This disease primarily affects

- A) the respiratory passageways and alveoli of the lungs.
- B) the esophagus, stomach, and other portions of the digestive tract.
- C) the mouth, nose, and pharynx in the upper respiratory tract.
- D) the heart, blood, and blood vessels throughout the body.

Answer: <https://biology-forums.com/index.php?topic=256810>

Question 383

Environmental pollution often decreases biodiversity by

- A) dramatically changing abiotic factors in the environment.
- B) favoring invasive species in a region.
- C) spreading pathogenic microorganisms in natural environments.
- D) reducing the number of pathogens in a region.

Answer: <https://biology-forums.com/index.php?topic=258481>

Question 384

Projections for future population growth in a country include assumptions about

- A) fertility and migration.
- B) mortality and fertility.
- C) migration and mortality.
- D) mortality, migration, and fertility.

Answer: <https://biology-forums.com/index.php?topic=258673>

Question 385

Which one of the following terms least applies to science?

- A) profitable
- B) objective
- C) repeatable
- D) skepticism

Answer: <https://biology-forums.com/index.php?topic=258013>

Question 386

DDT was widely used, and remains in use today in some countries, to fight malaria by

- A) killing the parasite that causes malaria.
- B) fouling the water used by mosquitoes for reproduction.
- C) killing the virus that causes malaria.
- D) killing mosquitoes that are the major malarial vector.

Answer: <https://biology-forums.com/index.php?topic=259055>

Question 387

- Over the past 50 years in the United States, commuting
- A) time and distance have nearly doubled.
 - B) time has remained about the same, but the distance has doubled.
 - C) time and distance have increased sixfold.
 - D) time and distance have remained about the same.

Answer: <https://biology-forums.com/index.php?topic=257389>

Question 388

- Golden frog populations would be more likely to survive the current threats if
- A) their populations were more widely distributed across Central and South America.
 - B) their populations were smaller in size.
 - C) individuals were genetically more similar to each other.
 - D) they only fed on a single type of food.

Answer: <https://biology-forums.com/index.php?topic=258229>

Question 389

- If the trends in pesticide use over the past 30 years continue, we can expect that pesticide use will
- A) drop to near zero in the next decade.
 - B) continue to decrease slowly.
 - C) increase gradually.
 - D) double in the next ten years.

Answer: <https://biology-forums.com/index.php?topic=259126>

Question 390

- The muddy Mississippi River, transporting soils that have eroded from farm fields, represents a mixing of the
- A) lithosphere and hydrosphere.
 - B) biosphere and atmosphere.
 - C) atmosphere and lithosphere.
 - D) hydrosphere and biosphere.

Answer: <https://biology-forums.com/index.php?topic=258180>

Question 391

- In general, fertility rates
- A) decrease as per capita income increases.
 - B) decrease as per capita income decreases.
 - C) increase as per capita income increases.
 - D) are unrelated to per capita income.

Answer: <https://biology-forums.com/index.php?topic=258707>

Question 392

- POPs such as dioxins and PCB's are transported into arctic ecosystems and food chains by
- A) global air patterns and then deposited on snow from where they enter streams and plankton.
 - B) being eaten by fish when toxic materials are dumped into oceans.
 - C) local industries run by native people which use toxic chemical processes.
 - D) ocean currents which contaminate local streams.

Answer: <https://biology-forums.com/index.php?topic=257211>

Question 393

- Throughout the world, there is general agreement that the safest place to store long-term nuclear waste is
- A) in the major oceans.
 - B) in space.
 - C) in high security above ground buildings.
 - D) deeply underground.

Answer: <https://biology-forums.com/index.php?topic=259266>

Question 394

Problems identifying places to build new landfills has generally resulted in

- A) increased dumping of MSW in rivers, lakes, and the oceans.
- B) large piles of MSW in vacated lots and industrial parks awaiting proper disposal.
- C) densely populated states outsourcing their MSW to states with less dense populations.
- D) the increased reliance on abandoned mines as sites where MSW can be deposited.

Answer: <https://biology-forums.com/index.php?topic=257106>

Question 395

Extracting oil from shale deposits

- A) has been initiated on a large scale in the United States and will soon surpass Canada's production.
- B) involves removing and refining waxy hydrocarbons called kerogen.
- C) in the United States will take place mostly in northeast states as well as in Georgia and Florida.
- D) in the United States has been studied by the EPA and found not to endanger ground water supplies.

Answer: <https://biology-forums.com/index.php?topic=259192>

Question 396

Inhaling fine particulates from smoking or from industrial sources is most likely to

- A) cause nasal irritation and sneezing.
- B) result in their being trapped in and damaging lung alveoli.
- C) result in their passing into the blood stream and damaging the heart and brain.
- D) cause an increase in blood levels of carbon dioxide.

Answer: <https://biology-forums.com/index.php?topic=256811>

Question 397

By design, the molecules that resist biodegradation and include some of the most problematic persistent organic pollutants are the

- A) synthetic organic compounds.
- B) inorganic compounds.
- C) recycled organic compounds.
- D) chlorinated heavy metals.

Answer: <https://biology-forums.com/index.php?topic=257245>

Question 398

The acronym HIPPO identifies the five major factors contributing to extinction today. These are

- A) humans, invasive species, periodic climate changes, pollution, and overexploitation.
- B) hunting, immigration, people, population, and outsourcing.
- C) housing, immigration, people, pollution, and overproduction.
- D) habitat destruction, invasive species, pollution, population growth, and overexploitation.

Answer: <https://biology-forums.com/index.php?topic=258436>

Question 399

Where would you expect to find the cheapest meat in the world?

- A) Europe and North America
- B) Asia
- C) Africa
- D) Central America

Answer: <https://biology-forums.com/index.php?topic=259008>

Question 400

In 2012, following the great recession of 2008 and 2009,

- A) oil prices dropped but can be expected to increase as the economy recovers.
- B) oil prices dropped and may remain low as the economy recovers.
- C) oil prices increased and can be expected to increase further as the economy recovers.
- D) oil prices increased but can be expected to decrease as the economy recovers.

Answer: <https://biology-forums.com/index.php?topic=259182>

Question 401

If the sun's energy could be measured in units like money, which of the following organisms would be the most expensive to maintain?

- A) a mushroom
- B) a fox
- C) a squirrel
- D) a sunflower

Answer: <https://biology-forums.com/index.php?topic=258344>

Question 402

- A person who dies of a heart attack at the age of 93 is more likely to have lived in a
- A) developed country.
 - B) developing country.
 - C) country located near the equator.
 - D) country in Central America.

Answer: <https://biology-forums.com/index.php?topic=256465>

Question 403

- In general, recycling materials found in MSW
- A) uses more natural resources but decreases pollution and saves energy.
 - B) uses more natural resources, increases pollution, but saves energy.
 - C) conserves natural resources, decreases pollution, but uses more energy.
 - D) conserves natural resources, decreases pollution, and saves energy.

Answer: <https://biology-forums.com/index.php?topic=257152>

Question 404

- Passed in 1900, the most significant legislation to protect wildlife from illegal killing or sale is the
- A) Endangered Species Act.
 - B) Lacey Act.
 - C) Threatened and Endangered Species Recovery Act.
 - D) Wildlife Protection Act.

Answer: <https://biology-forums.com/index.php?topic=258495>

Question 405

- Which of the following best represents potential energy?
- A) cars stopped at an intersection
 - B) sunlight shining on people on a beach
 - C) a charged battery in a flashlight
 - D) a breeze blowing across the top of a lake

Answer: <https://biology-forums.com/index.php?topic=258187>

Question 406

- A raccoon spends its week eating raspberries, grain, eggs, and grasshoppers. Raccoons are therefore
- A) carnivores.
 - B) omnivores.
 - C) herbivores.
 - D) producers.

Answer: <https://biology-forums.com/index.php?topic=258330>

Question 407

- Despite widespread use of insecticides and herbicides, infestations of insects, plant pathogens, and weeds currently cause a loss of about
- A) 5% of potential agricultural production in the United States.
 - B) 35% of potential agricultural production in the United States.
 - C) 50% of potential agricultural production in the United States.
 - D) 95% of potential agricultural production in the United States.

Answer: <https://biology-forums.com/index.php?topic=259046>

Question 408

- Because of the challenges associated with removing oil from the ground,
- A) the first oil removed from a well is the most expensive to extract.
 - B) primary recovery of oil is more expensive than secondary recovery.
 - C) enhanced recovery of oil is more expensive than secondary recovery.
 - D) only about 60% of the oil in a well can be removed by just pumping.

Answer: <https://biology-forums.com/index.php?topic=259170>

Question 409

The U.N. and many international agencies feel a sense of urgency to make the transition to renewable energies soon because

- A) of political pressure from China and the United States.
- B) projected levels of carbon dioxide levels may reach 1000 ppm by 2100 with catastrophic effects of global sea levels and climate.
- C) developing nations can afford renewable energy but not fossil fuels whose price is rising.
- D) it will take some pressure off global fossil fuel reserves and keep electricity prices low.

Answer: <https://biology-forums.com/index.php?topic=259310>

Question 410

In any food web, biomagnification will result in the highest concentrations of toxins in the

- A) lowest trophic level.
- B) highest trophic level.
- C) highest photosynthetic trophic level.
- D) herbivores of the systems.

Answer: <https://biology-forums.com/index.php?topic=259078>

Question 411

A foundation wishes to promote sustainable agriculture and organic farming. A consultant suggests that the foundation may want to give money to researchers investigating ecological control of pests. As the foundation reviews grant proposals, they should give the most money to researchers wanting to learn more about

- A) the natural relationships between pests, their host plants, and the general environment.
- B) the specific nutritional requirements of the desired crops.
- C) differences between persistent and nonpersistent pesticides previously used in the region.
- D) biomagnification of pesticides used to control the pests.

Answer: <https://biology-forums.com/index.php?topic=259091>

Question 412

Although hydroelectric dams generate electricity without producing greenhouse gases, they

- A) are short-lived structures that have to be rebuilt about every 20 years.
- B) are only able to contribute to about 5% of the electrical power throughout the world.
- C) alter water control in ways that make it more difficult to irrigate crops.
- D) eliminate farmland and wildlife habitats and often villages in the regions that are flooded.

Answer: <https://biology-forums.com/index.php?topic=259349>

Question 413

Smoking is attributed to all of the following, except

- A) lung cancer.
- B) heart disease.
- C) COPD and other related lung diseases.
- D) malaria and tuberculosis.

Answer: <https://biology-forums.com/index.php?topic=256476>

Question 414

The main cause of undernourishment and malnourishment in the world is

- A) lack of education.
- B) poverty.
- C) underproduction of food.
- D) problems with global distribution of food.

Answer: <https://biology-forums.com/index.php?topic=259023>

Question 415

If you only had one million dollars to spend on a population of 10,000 people in a village in a developing country, which of the following would have the greatest impact on their health?

- A) creation of reliable source of clean water and proper sewage systems
- B) medical supplies to treat labor-related injuries
- C) bring in large supplies of nutritious fresh fruits and vegetables
- D) take samples of the water and local foods to identify sources of toxins and carcinogens

Answer: <https://biology-forums.com/index.php?topic=258755>

Question 416

Which of the following is an example of natural goods from an ecosystem?

- A) pollination
- B) ocean fish netted for food
- C) control of pest populations
- D) carbon sequestration

Answer: <https://biology-forums.com/index.php?topic=258517>

Question 417

This is a photo of a hardy perennial grass that can be grown just to produce ethanol to replace some of the gasoline used to fuel automobiles. Unlike using corn grains to produce ethanol, the use of this grass to produce ethanol requires

- A) more fossil fuels than it currently saves.
- B) additional fertilizers and irrigation.
- C) prime soil that would otherwise be used to grow food crops.
- D) enzymes that break down cellulose to produce sugars.

Answer: <https://biology-forums.com/index.php?topic=259370>

Question 418

Salvage logging after a forest fire

- A) reduces the risk of additional forest fires in the region.
- B) encourages the growth of seedlings springing up after the fire.
- C) clears the forest floor of branches and brush.
- D) disturbs the soil and reduces nutrients.

Answer: <https://biology-forums.com/index.php?topic=258601>

Question 419

Which of the following would be classified as "soil constraints"?

- A) cold climate
- B) moderate to heavy rainfall
- C) poor drainage, salinity and high levels of aluminum
- D) low erosion potential and high levels of phosphorus

Answer: <https://biology-forums.com/index.php?topic=258889>

Question 420

The Endangered Species Act

- A) protects critical habitats of endangered species, but cannot control privately held lands.
- B) includes species recovery plans intended to help listed species survive and thrive.
- C) currently protects animal but not plant species.
- D) has resulted in the recovery of more than 1,000 species that have been taken off the list.

Answer: <https://biology-forums.com/index.php?topic=258497>

Question 421

Today, we are able to use nuclear fusion to

- A) power a hydrogen bomb.
- B) generate electricity efficiently.
- C) produce hydrogen for fuel cell cars.
- D) power jets and ships.

Answer: <https://biology-forums.com/index.php?topic=259295>

Question 422

The two-stage ditch design was created in order to

- A) drain wetlands and provide more agricultural land.
- B) combine agricultural areas with aquaculture of fish.
- C) allow ditches to drain off excess water from croplands but also avoid erosion during heavy rains.
- D) bring water from distant rivers and lakes to drylands in the process of desertification.

Answer: <https://biology-forums.com/index.php?topic=258948>

Question 423

Uncertain about the best way to keep his new lizard alive, Jerome places a heat lamp at one end of the long lizard cage. Over several days, Jerome notices that the lizard tends to sit in a certain place when the lamp is on. The lizard's selection of a particular place to stay represents its

- A) range of tolerance.
- B) temperature optimum.

- C) biotic conditioning.
- D) use of a limited resource.

Answer: <https://biology-forums.com/index.php?topic=258158>

Question 424

One of the least promising non-fossil fuel energy sources uses

- A) wind power.
- B) biomass energy.
- C) geothermal energy.
- D) thermal-energy conversion in the oceans.

Answer: <https://biology-forums.com/index.php?topic=259389>

Question 425

Which one of the following vehicles would generate the greatest amount of carbon tax?

- A) a large hybrid-electric SUV that gets 31 miles per gallon
- B) a small gas-powered car that gets 27 miles per gallon
- C) an all-electric car that charges its batteries using solar power-generated electricity
- D) a car powered by natural gas that gets 33 miles per gallon

Answer: <https://biology-forums.com/index.php?topic=259395>

Question 426

At an international conference on global climate change, a representative of a developing country admits that each year, his country contributes the same amount of greenhouse gases to the atmosphere as the United States. However, he argues that because his country has only 10% of the wealth of the United States, the United States should pay much more of the costs of adaptation. This representative's arguments illustrate the

- A) polluter pays principle.
- B) precautionary principle.
- C) equity principle.
- D) conservation of the commons principle.

Answer: <https://biology-forums.com/index.php?topic=256695>

Question 427

Rachel Carson's scientific credibility was due in major part to her

- A) political connections with the Nixon administration.
- B) key role in the establishment of the EPA.
- C) funding from the companies that produced and distributed DDT.
- D) meticulous documentation of the findings reported in her book.

Answer: <https://biology-forums.com/index.php?topic=256443>

Question 428

Children learning the process of good home gardening decide to help as best they can. Every day they walk along rows of bean plants, carefully inspecting each plant for insects, and removing any that they find. However, the bean plants do not grow well, and few beans form. Their parents notice the poor beans, inspect the plants and soil, and tell the children that walking around the plants every day has hurt the plants by

- A) compacting the soil, decreasing aeration and infiltration.
- B) increasing soil aeration and killing soil microorganisms.
- C) reducing the nutrient minerals out of the soil.
- D) converting the topsoil into clay.

Answer: <https://biology-forums.com/index.php?topic=258903>

Question 429

To avoid negatively impacting food production and marketing resulting from routine shipments of food to regions of chronic hunger, the World Food Program targets

- A) tropical regions where food shortages are associated with high rates of infectious disease.
- B) countries with good forms of transportation to allow better distribution of food.
- C) emergency situations and then purchases most of the food within the region where it is needed.
- D) agricultural programs and purchases seed, fertilizers, and pesticides to encourage local farming.

Answer: <https://biology-forums.com/index.php?topic=259029>

Question 430

Hydrogen in fuel cells powers automobiles by

- A) generating electricity.

- B) creating rapidly combustible hydrogen compounds.
- C) generating changes in gas pressures that move pistons in car engines.
- D) combining with equal parts of gasoline to create a fuel with extra octane.

Answer: <https://biology-forums.com/index.php?topic=259377>

Question 431

In Costa Rica, a heavy downpour provides water that quickly evaporates or is absorbed and released by the dense vegetation of the tropical rain forest. This is an example of a cycle using

- A) condensation, evaporation, transpiration, and green water.
- B) condensation, precipitation, and gravitational water.
- C) evaporation, gravitational flow, and adiabatic cooling.
- D) precipitation, gravitational flow, and convection.

Answer: <https://biology-forums.com/index.php?topic=258807>

Question 432

Synergistic health risks are associated with a person who smokes and

- A) delivers mail in a farming community.
- B) works inside of an office building.
- C) works in a coal mine.
- D) jogs in a park for exercise.

Answer: <https://biology-forums.com/index.php?topic=256478>

Question 433

Organizations such as the Shack/Slum Dwellers International are helping the people who live in the vast slums surrounding major cities by

- A) helping them dig wells for drinking water and grow vegetable gardens near their homes.
- B) representing them to institutions such as the World Bank and city governments.
- C) constructing public transportation systems within developing cities.
- D) relocating them into the rural countryside where jobs are abundant.

Answer: <https://biology-forums.com/index.php?topic=257456>

Question 434

Which of the following states will most likely experience the greatest warming in the next 50 years?

- A) Florida
- B) Hawaii
- C) Alaska
- D) Illinois

Answer: <https://biology-forums.com/index.php?topic=256672>

Question 435

The development of golden rice 1 and 2 are different from that of other GM crops because

- A) highly radioactive materials that continue to contaminate these forms of rice.
- B) genes spliced from corn and beans could not contribute to benefiting a superweed.
- C) they are controlled by a large for-profit corporation.
- D) they have caused many serious and fatal allergic reactions in people eating them.

Answer: <https://biology-forums.com/index.php?topic=259001>

Question 436

During the Great Depression, conservation

- A) was simply a luxury that could not be afforded.
- B) efforts were opposed by millions of people who had no time to go to parks.
- C) provided work and helped restore land.
- D) was devalued as most national parks and national forests were harvested for timber and coal.

Answer: <https://biology-forums.com/index.php?topic=258000>

Question 437

The soil structure resulting from the castings of earthworms

- A) improves the infiltration and aeration of soil.
- B) decreases the infiltration and aeration of soil.
- C) decreases the nutrient-holding capacity of soil.
- D) improves the nutrient-holding capacity but decreases the aeration of soil.

Answer: <https://biology-forums.com/index.php?topic=258912>

Question 438

In addition to the sheer volume, one of the greatest risks of adding e-wastes into landfills is

- A) the generation of large volumes of biogas.
- B) a danger that CRTs will result in huge explosions.
- C) the leaching out of heavy metals into groundwater.
- D) the tremendous amounts of heat generated when e-waste decays.

Answer: <https://biology-forums.com/index.php?topic=257201>

Question 439

The classical economic paradigm and the new ecological economic paradigm differ in the way that

- A) each views the land, either as a resource within the human economy (classical) or as something that encompasses the economy (ecological).
- B) the value of capital is assessed, either in dollars (classical) or as resources that can be mined from the Earth (ecological).
- C) labor is determined, either as the number of people who are unemployed not counting farmers (classical) or the number of people who are unemployed counting farmers (ecological).
- D) labor and capital are assessed, either counting the total labor and capital resources available (classical) or that which is in use in operations (ecological).

Answer: <https://biology-forums.com/index.php?topic=258074>

Question 440

Even using the best methods for sustainable agriculture, Green Revolution grain crops in developed nations are ultimately limited by

- A) weather.
- B) pests.
- C) soil degradation.
- D) problems with transportation and storage.

Answer: <https://biology-forums.com/index.php?topic=259034>

Question 441

Water is naturally purified by

- A) evaporation and condensation.
- B) transpiration and evaporation.
- C) precipitation and infiltration.
- D) condensation and transpiration.

Answer: <https://biology-forums.com/index.php?topic=258795>

Question 442

A study is conducted to understand how some developing countries have made social and economic progress. Which of the following would be a surprising finding in such a study?

- A) decreased fertility rates
- B) increased availability of clean drinking water
- C) decreased support of education
- D) a decline in extreme poverty

Answer: <https://biology-forums.com/index.php?topic=258716>

Question 443

The planting of strips of trees and shrubs along the edges of plowed fields is used to

- A) decrease wind erosion.
- B) form water catchments for irrigation and wildlife conservation.
- C) drain off excess water during heavy rainfall events.
- D) limit the spread of crop pests.

Answer: <https://biology-forums.com/index.php?topic=258934>

Question 444

The Millennium Development Goals were wide ranging, but did not specifically address

- A) communicable disease.
- B) maternal health and child mortality.
- C) higher secondary and college education.
- D) environmental sustainability.

Answer: <https://biology-forums.com/index.php?topic=258722>

Question 445

How is the disposal of MSW different today than it was in the 1960s? Today, MSW is much

- A) less likely to be burned.
- B) less likely to be recycled.
- C) less likely to be buried in a landfill.
- D) more likely to be dumped in the oceans.

Answer: <https://biology-forums.com/index.php?topic=257065>

Question 446

Which of the following would most likely have the greatest impact on the ocean conveyor system in the Atlantic Ocean?

- A) doubling the size of the Panama Canal
- B) increased volcanic activities in the Pacific Ocean
- C) complete melting of the polar ice cap
- D) doubling the number of ships that cross from North America to Europe using fossil fuels

Answer: <https://biology-forums.com/index.php?topic=256631>

Question 447

Desalination plants, such as the one just completed in Tampa Bay,

- A) produce water as inexpensively as groundwater supplies.
- B) are unfortunately not a sustainable source of water.
- C) produce enough water for local agricultural crops such as corn.
- D) None of the above.

Answer: <https://biology-forums.com/index.php?topic=258850>

Question 448

Closed landfills, first dubbed the "solid waste crisis" in the 1970s, now are being transformed into

- A) organic farms.
- B) nuclear waste storage sites.
- C) recreational parks, nature preserves and golf courses.
- D) new sources of clean drinking water.

Answer: <https://biology-forums.com/index.php?topic=257060>

Question 449

A home located about 500 feet from an abandoned landfill explodes in a giant ball of flames. This is a mystery, as the home only uses electricity for cooking and heating the home. Most likely, this disaster was caused by

- A) groundwater contamination from the landfill into the home.
- B) biogas that seeped from the landfill along horizontal cracks and into the home.
- C) gasoline or other flammable substances that leached from the landfill into the home.
- D) corrosives that leached from the landfill into the home and degraded the home's electrical wires.

Answer: <https://biology-forums.com/index.php?topic=257088>

Question 450

In using control by natural enemies of pests, from the ecological perspective it is best to

- A) import enemies from abroad or from distant ecosystems to have the highest kill rate.
- B) select enemies that have a very broad range of pest prey or hosts.
- C) couple this method with intensive broad-spectrum pesticide spraying.
- D) select enemies that are local and have a narrow specificity for the pest in question.

Answer: <https://biology-forums.com/index.php?topic=259107>

Question 451

Unlike high-income countries, low-income countries rely most on their

- A) human resources.
- B) produced capital.
- C) natural capital.
- D) intangible capital.

Answer: <https://biology-forums.com/index.php?topic=258087>

Question 452

The primary job of APHIS is to

- A) intercept pests arriving through international or interstate commerce.
- B) monitor and evaluate pest control using IPM methods.
- C) develop new biological pest control methods.
- D) monitor biofouling organisms and their damage to ships, docks and dams.

Answer: <https://biology-forums.com/index.php?topic=259106>

Question 453

Which of the following represents a habitat intrusion in the United States that kills at least 5 million individual birds annually?

- A) offshore oil exploration and drilling platforms
- B) telecommunications towers
- C) construction and repair of highways
- D) barges and ships on lakes, rivers, and oceans

Answer: <https://biology-forums.com/index.php?topic=258442>

Question 454

The public's understanding of how science is done, especially as it relates to environmental policies, is essential. Therefore, the general public needs to understand that action may be necessary when scientists

- A) are certain.
- B) reach a consensus.
- C) have completed all their research.
- D) have eliminated all doubt about their conclusions.

Answer: <https://biology-forums.com/index.php?topic=257502>

Question 455

The future global energy demands may be met by developing sustainable energy resources and also, most easily, by

- A) dramatically increasing oil and natural gas exploration.
- B) increasing our use of the abundant natural gas and coal resources.
- C) improving energy conservation and efficiency of current technology.
- D) limiting the use of energy in developing countries.

Answer: <https://biology-forums.com/index.php?topic=259390>

Question 456

Which one of the following is true?

- A) The U.S. Environmental Protection Agency frequently creates policy for questions of water quantity and distribution.
- B) Most water policy decisions in the United States are made at national levels.
- C) Many countries have addressed their water resources and water needs with a national policies and agencies.
- D) The World Water Forum has found that water supplies for developing nations will stabilize over the next decade.

Answer: <https://biology-forums.com/index.php?topic=258861>

Question 457

The effect of the 2008 recession has

- A) speeded up the flight from inner cities to suburbs.
- B) made existing properties more valuable.
- C) greatly slowed the suburban building boom and the purchase of new houses.
- D) reversed the movement to suburbs, increasing the pressure to find housing in the inner city.

Answer: <https://biology-forums.com/index.php?topic=257401>

Question 458

In this figure, the 2005 projection for U.S. population growth is significantly greater than projections made in 1989 because the 2005 projection includes

- A) a higher fertility rate.
- B) higher levels of immigration.
- C) higher fertility rates and higher levels of immigration.
- D) higher rates of infant mortality and emigration.

Answer: <https://biology-forums.com/index.php?topic=258679>

Question 459

People who are well aware of the damaging effects of mercury might insist that all fish that they eat is free from mercury. They may be alarmed, for instance, if mercury levels remain at very low levels, far below that known to cause harm. Insisting that mercury be completely eliminated from fish

- A) will likely require little additional cost with potentially great benefits.
- B) will likely reduce the cost of fish and improve the health of consumers.
- C) is not cost effective for the health benefits of complete elimination.
- D) is a necessary but very expensive part of additional environmental controls.

Answer: <https://biology-forums.com/index.php?topic=258126>

Question 460

Which of the following is a part of family-planning services?

- A) instruction on breast-feeding
- B) advice on the best timing of an additional pregnancy following a birth
- C) education to reduce the risks of sexually transmitted disease
- D) All of the above.

Answer: <https://biology-forums.com/index.php?topic=258761>

Question 461

Many polluted ecosystems will recover if we stop polluting them. This illustrates

- A) loss of ecosystem capital.
- B) the essential role of keystone species in ecosystems.
- C) secondary succession.
- D) the natural resilience of ecosystems.

Answer: <https://biology-forums.com/index.php?topic=258388>

Question 462

New Generation III nuclear plants such as the AP1000 Advanced Passive Reactor features

- A) a combination of nuclear fusion and fission in a single design.
- B) a pressurized water system with many new passive safety features to prevent a LOCA.
- C) a design that uses a mechanical source of X-rays for power.
- D) designs based on the Fukushima Daiichi plant in Japan.

Answer: <https://biology-forums.com/index.php?topic=259272>

Question 463

A home is buried in soil such that only the south facing side of the home, with many large windows, is exposed to the outside. Such construction of a home in Oklahoma is benefiting from

- A) biomass heating and geothermal cooling.
- B) active geothermal heating and cooling.
- C) solar heating and geothermal cooling.
- D) passive solar and active biomass energy.

Answer: <https://biology-forums.com/index.php?topic=259330>

Question 464

A reverse biomass pyramid is typical of

- A) terrestrial ecosystems because of the high concentration of sunlight.
- B) terrestrial ecosystems because land can support more animals than water.
- C) aquatic ecosystems because top consumers live much longer than producers.
- D) aquatic ecosystems because water contains much more oxygen than air.

Answer: <https://biology-forums.com/index.php?topic=258347>

Question 465

Which of the following aspects of medicine would have the greatest impact if more widely practiced in a developing country?

- A) greater access to high-tech medical procedures
- B) better access to cancer therapies and clinics
- C) improvements in nutrition and hygiene
- D) increased availability of cholesterol and blood pressure lowering drugs

Answer: <https://biology-forums.com/index.php?topic=258753>

Question 466

Immigrants who maintain ties to their native countries

- A) reflect a brain drain of their native economies.
- B) send much of their money home as remittances.
- C) typically provide little support to their native countries, struggling instead to support themselves.

D) often rely upon resources from their native homes just to survive.

Answer: <https://biology-forums.com/index.php?topic=258739>

Question 467

About 17,000 Russian nuclear warheads have been

- A) stored widely in the former Soviet Union where they remain today with minimal protection.
- B) dismantled, but their nuclear waste remains in Russian facilities with minimal security.
- C) dismantled, with the nuclear fuel purchased by the United States for its nuclear power plants.
- D) concentrated in two centralized Russian locations with high levels of security, awaiting long-term storage.

Answer: <https://biology-forums.com/index.php?topic=259264>

Question 468

China's current need to increase its water supply is rooted in

- A) the need to grow more crops to support its growing population.
- B) providing drinking water for southern urban areas.
- C) developing mining industries in the arid northwest.
- D) using water as a trading item to get preferential treatment for its exports.

Answer: <https://biology-forums.com/index.php?topic=258775>

Question 469

What are the expected results of sending at least 50% of children in a developing country to secondary schools?

- A) increased fertility and larger families
- B) population shifts from urban to rural communities
- C) decreased reliance upon urban transportation
- D) healthier children, less poverty and decreased fertility

Answer: <https://biology-forums.com/index.php?topic=258751>

Question 470

Which one of the following illustrates interspecific competition?

- A) The largest wolves in a pack are the first to feed on a freshly killed deer.
- B) Two honeybees from the same colony converge on a flower to collect pollen and nectar.
- C) Advertising its nectar with red colors, a columbine flower attracts a hummingbird for a meal.
- D) Caterpillars of two different species of moth are feeding on the same plant's leaves.

Answer: <https://biology-forums.com/index.php?topic=258262>

Question 471

Compared to Emiquon, the Comprehensive Everglades Restoration Plan

- A) suffers from a lack of funding.
- B) is a much smaller region to manage.
- C) was a much faster project, completed in just over 4 years.
- D) does not involve the management of wetlands.

Answer: <https://biology-forums.com/index.php?topic=258550>

Question 472

What was the experimental variable in the above experiment?

- A) pesticide Z
- B) the number of grasshoppers receiving the pesticide
- C) the location of the fields
- D) the water sprayed on the fields

Answer: <https://biology-forums.com/index.php?topic=258021>

Question 473

The use of government rangelands for the grazing of cattle has

- A) resulted in the increased productivity of these regions.
- B) raised funds that are now available to replant these regions.
- C) produced cooperative relationships between herders to sustainably manage these regions.
- D) reduced productivity by at least 50% and lost the government money.

Answer: <https://biology-forums.com/index.php?topic=258940>

Question 474

The eruption of Mt. Pinatubo in the Philippines

- A) affected only local, island ecosystems.
- B) produced large amounts of sulfur dioxide but few aerosols.
- C) produced aerosols that blocked the sun and resulted in a drop in global temperatures.
- D) caught the human populations unaware, giving no prior signs of activity.

Answer: <https://biology-forums.com/index.php?topic=258316>

Question 475

Environmental government policies and regulations are applied at the

- A) federal level only.
- B) state and federal levels.
- C) local, state, and federal levels.
- D) local level only.

Answer: <https://biology-forums.com/index.php?topic=258106>

Question 476

Which of the following is something the World Bank might do?

- A) purchase mineral rights from developing countries
- B) construct dams paid for by revenues generated through the sale of electrical power
- C) lend money to governments of developing countries for a variety of projects
- D) construct highways and navigation canals for increased international commerce

Answer: <https://biology-forums.com/index.php?topic=258728>

Question 477

Which of the following best represents kinetic energy?

- A) the energy in the wax molecules of a candle
- B) gunpowder in a bullet
- C) a charged battery
- D) a hot burner on a stove

Answer: <https://biology-forums.com/index.php?topic=258188>

Question 478

Limits on mountaintop removal mining were removed by the Bush administration in the late 1990s when

- A) regulations on the use of coal in power plants were lifted, increasing the demand for coal.
- B) large regions of national forest were reclassified as national reserves, permitting coal mining.
- C) the mountain top debris was reclassified from waste to fill, allowing it to be dumped into valleys.
- D) laws changed, permitting the relocation of people and homes in the surrounding regions.

Answer: <https://biology-forums.com/index.php?topic=259210>

Question 479

If everyone on Earth eliminated meat from their diets, we would expect

- A) increased demand for fossil fuels.
- B) increased pollution of waterways.
- C) increases in avian flu and Salmonella poisoning.
- D) a great surplus of grains.

Answer: <https://biology-forums.com/index.php?topic=258973>

Question 480

Heavy metals can quickly move through ecosystems because they

- A) are soluble in water as ions and as a few other compounds.
- B) quickly dissolve in the fats of animals.
- C) quickly become incorporated into sugars and starch.
- D) easily clump together and bind tightly to soil compounds.

Answer: <https://biology-forums.com/index.php?topic=257249>

Question 481

Organically grown foods are typically

- A) free of all pesticide residues.
- B) usually less expensive than non-organic foods.
- C) grown with traditional methods, diverse crops, soil conservation and based in local economies.
- D) grown on farms that are typically larger than non-organic food farms.

Answer: <https://biology-forums.com/index.php?topic=259115>

Question 482

Which of the following ecosystem service degradations is not a major environmental concern for sustainable development?

- A) overfishing the oceans
- B) degrading agricultural soils
- C) depleting supplies of coal
- D) cutting forests faster than they can regrow

Answer: <https://biology-forums.com/index.php?topic=257978>

Question 483

The people in this photograph are using

- A) a bed net for mosquito vector control.
- B) antibiotic-treated white sheets to kill the parasite the causes malaria.
- C) a bed raised off the ground to prevent malarial infection by ticks.
- D) a DDT-treated tent and sheets strategy that kills the parasite that causes malaria.

Answer: <https://biology-forums.com/index.php?topic=256505>

Question 484

The destruction of oyster larvae in Oregon aquaculture tanks was discovered to be caused by

- A) pathogenic bacteria.
- B) minute predators accidentally imported in sea water.
- C) temperatures too warm for larval survival.
- D) increase in the acidity of sea water in which the larvae were incubated.

Answer: <https://biology-forums.com/index.php?topic=257994>

Question 485

The last 50 years of declining productivity of the commercial fish populations off the northeast coast of North America reveal the impact of

- A) air pollution on fish populations.
- B) water pollution on fish populations.
- C) global climate change on fish populations.
- D) overfishing.

Answer: <https://biology-forums.com/index.php?topic=258569>

Question 486

Which of the following will slow the rate of global population increases?

- A) increasing life expectancy
- B) reducing infant mortality
- C) delaying the age of first reproduction
- D) increasing life expectancy and reducing infant mortality

Answer: <https://biology-forums.com/index.php?topic=258670>

Question 487

Nina gets a new baby turtle from a friend, and is told to feed it worms. For the first few months, the turtle seemed to grow well. But as time passed, the turtle's shell appeared soft and fragile. Someone suggested that the turtle might not be getting enough calcium in its diet. If this is true for this turtle, dietary calcium is

- A) a limiting factor.
- B) an environmental condition.
- C) a habitat condition.
- D) a natural environmental stressor.

Answer: <https://biology-forums.com/index.php?topic=258165>

Question 488

Feeling a strong sense of environmental responsibility, you decide to do your part to decrease the global loss of rain forests. Which of the following activities helps you contribute to rain forest conservation?

- A) eating more beef from Brazil

- B) purchasing village-managed shade-grown cacao from South America
- C) promoting the purchase of wood products from South America
- D) avoiding the purchase of all nuts and fruits harvested from forests in Brazil

Answer: <https://biology-forums.com/index.php?topic=258565>

Question 489

In New York City in the 1920s, sewage-carried pathogenic diseases were primarily prevented by

- A) public water supplies that treated the water with fluoride.
- B) widespread use of antibacterial soaps.
- C) widespread immunization against most of these pathogens.
- D) central collection and treatment of human sewage.

Answer: <https://biology-forums.com/index.php?topic=256921>

Question 490

Which type of tenure is most likely associated with fishing in the open ocean?

- A) private ownership
- B) open access
- C) communal ownership
- D) state ownership

Answer: <https://biology-forums.com/index.php?topic=258544>

Question 491

Some people have thought that a big solution to water shortages in the southwestern United States is to create a large canal between the Great Lakes and the southwest. Why is this suggestion probably not sustainable?

- A) The water would evaporate from open canals before it makes it to the southwest.
- B) It would be too costly.
- C) It could deplete water levels in the Great Lakes.
- D) Water in the Great Lakes is needed for local irrigation in the Midwest.

Answer: <https://biology-forums.com/index.php?topic=258862>

Question 492

A country with a declining fertility rate below 2.0

- A) will be graying.
- B) will have a population declining in size.
- C) is increasingly common in highly developed nations.
- D) All of the above.

Answer: <https://biology-forums.com/index.php?topic=258676>

Question 493

Most ecosystems

- A) are sharply divided from other ecosystems.
- B) consist of two or more distinct landscapes.
- C) grade into other ecosystems in regions called ecotones.
- D) are clustered with other ecosystems to form communities.

Answer: <https://biology-forums.com/index.php?topic=258149>

Question 494

The best predictions of U.S. population growth consider

- A) total fertility rate.
- B) age a woman first reproduces, total fertility rate, and age of the father of all children.
- C) total fertility rate, age of first reproduction, and average household income.
- D) immigration, total fertility rate, and age of first reproduction.

Answer: <https://biology-forums.com/index.php?topic=258663>

Question 495

To encourage the development of sustainable agriculture, U.S. national agricultural policies will need to support all of the following, except

- A) incorporating economic "externalities" such as soil degradation, pollution and overuse of water supplies.
- B) more job creation in agriculture.
- C) continued support and subsidy of large farms.
- D) support of urban and organic agriculture.

Answer: <https://biology-forums.com/index.php?topic=259037>

Question 496

Which of the following is a secondary pollutant in the troposphere but a beneficial component in the stratosphere?

- A) ozone
- B) nitrogen oxides
- C) carbon monoxide
- D) volatile organic compounds

Answer: <https://biology-forums.com/index.php?topic=256800>

Question 497

In general, coral reef ecosystems globally

- A) provide very little ecosystem capital.
- B) are in critical condition in the Caribbean, but healthy elsewhere.
- C) are recovering quickly from human-caused damage because corals grow quickly.
- D) are sensitive to pollution, physical breakage and invasive species.

Answer: <https://biology-forums.com/index.php?topic=258515>

Question 498

The greatest potential for developing new types of agricultural crops depends upon

- A) bioengineering new combinations of wheat and rice.
- B) grafting together different plants into one new type of plant, such as a plant with tomatoes and sweet potato roots.
- C) thousands of plant species that occur only in the wild.
- D) our ability to identify and culture new types of animal pollinators.

Answer: <https://biology-forums.com/index.php?topic=258417>

Question 499

Most organisms accumulate synthetic organic chemicals in their bodies because these chemicals

- A) are easily converted into molecules that are used to build parts of cells.
- B) are a concentrated source of minerals, needed for cellular metabolism.
- C) cannot be broken down by the natural metabolic mechanisms.
- D) are a major source of calories when food is not available.

Answer: <https://biology-forums.com/index.php?topic=259074>

Question 500

Erosion can result in a vicious cycle of worsening erosion because

- A) rainwater increasingly soaks into the ground.
- B) the accumulation of humus makes erosion more likely.
- C) plants are less likely to grow in an eroded region.
- D) the pH of the soil increases as erosion continues.

Answer: <https://biology-forums.com/index.php?topic=258924>

Question 501

Which one of the following would cause the greatest soil erosion to a forested hillside?

- A) removing the dead trees
- B) cutting down and removing all of the trees
- C) converting the hillside from forest to grass
- D) planting new trees in the forest

Answer: <https://biology-forums.com/index.php?topic=258941>

Question 502

According to recent EPA studies, 70% of pesticide poisonings in humans come from

- A) heavy metals such as arsenic and lead.
- B) persistent chemicals like DDT.
- C) non-persistent organophosphates.
- D) eating meat tainted with persistent pesticides.

Answer: <https://biology-forums.com/index.php?topic=259084>

Question 503

On a vacation, you spend much of the day walking along the water's edge on an ocean beach soaking up the sun. The place where you are walking is a good example of a(n)

- A) landscape.
- B) ecotone.
- C) biome.
- D) population.

Answer: <https://biology-forums.com/index.php?topic=258154>

Question 504

Which one of the following characteristics is most useful in identifying separate species? Closely related but separate species do not

- A) live on the same continent.
- B) require similar nutrients.
- C) interbreed to produce viable hybrids.
- D) appear anatomically similar.

Answer: <https://biology-forums.com/index.php?topic=258140>

Question 505

Agricultural fields that must be irrigated to sustain a crop will eventually

- A) produce sinkholes.
- B) lose most of their minerals and salts.
- C) accumulate toxic levels of salts from evaporation.
- D) produce soils that will not hold water, leading to desertification.

Answer: <https://biology-forums.com/index.php?topic=258849>

Question 506

Which of the following best embodies the quality of a scientific theory?

- A) Squirrels in central Illinois prefer to build their nests in oak trees instead of hickory trees.
- B) All gases, liquids, and solids consist of atoms.
- C) Prairies that have large herds of bison show greater plant diversity than prairies without bison.
- D) Dangerous wildfires in California could be avoided by better fire prevention strategies.

Answer: <https://biology-forums.com/index.php?topic=258018>

Question 507

Which of the following activities would be consistent with the Millennium Development Goals?

- A) help communities build technical and trade schools for boys to learn skills in high demand
- B) develop coal, gold, and silver mines wherever possible as quick sources of jobs
- C) provide meals and mosquito nets for every child under the age of five
- D) encourage the expansion of national militaries to provide income and technical training

Answer: <https://biology-forums.com/index.php?topic=258723>

Question 508

When the EPA began risk assessment in the mid-1970s, it was primarily concerned with

- A) the safety of public transportation systems.
- B) interactions between people and wildlife in national parks.
- C) cancer risks associated with pesticides and toxic chemicals.
- D) accidents associated with lost time on the job and workman's compensation.

Answer: <https://biology-forums.com/index.php?topic=256529>

Question 509

In developing countries, pressure to increase agricultural productivity has resulted in

- A) increased yields.
- B) more sustainable use of the land.
- C) conversion of forests into agricultural fields.
- D) reduced use of hybrid crops.

Answer: <https://biology-forums.com/index.php?topic=258657>

Question 510

The method of farming illustrated in this photograph best represents

- A) the Industrial Revolution.
- B) the Green Revolution.

- C) subsistence farming.
- D) a rare form of agriculture.

Answer: <https://biology-forums.com/index.php?topic=258974>

Question 511

The chain reaction in this figure is a

- A) self-amplifying chain reaction that is used in most U.S. nuclear power plants.
- B) self-amplifying chain reaction that could lead to a nuclear explosion.
- C) sustaining chain reaction using control rods, like that used in most U.S. nuclear power plants.
- D) sustaining reaction without control rods, demonstrating the consequences of no control.

Answer: <https://biology-forums.com/index.php?topic=259251>

Question 512

Climatologists recorded the temperature and pH of the oceans in more than 1,000 locations for more than 30 years. The results indicate that the oceans are warming and dropping in pH. This is an example of

- A) political action.
- B) stewardship.
- C) sound science.
- D) sustainability.

Answer: <https://biology-forums.com/index.php?topic=257486>

Question 513

Which of the following farming practices would be expected to produce the least nutrient leaching, and thus contribute most to soil sustainability?

- A) deep plowing, irrigation, and the use of inorganic fertilizers
- B) deep plowing, no irrigation, and the use of inorganic fertilizers
- C) no plowing, irrigation, and the use of organic fertilizers
- D) no plowing, no irrigation, and the use of organic fertilizers

Answer: <https://biology-forums.com/index.php?topic=258895>

Question 514

Groundwater as a water source may be better than surface water because

- A) groundwater may be naturally purified by percolation through soil.
- B) groundwater is a self-replenishing resource that cannot be exhausted.
- C) surface water is not naturally self-replenishing.
- D) groundwater is more easily located than surface water.

Answer: <https://biology-forums.com/index.php?topic=258827>

Question 515

The generation of alternate fuels from manure and sawdust

- A) increases our consumption of fossil fuels.
- B) reduces costs to a company by using waste products.
- C) increases the production of commercial waste products.
- D) eliminates the production and release of carbon dioxide into the atmosphere.

Answer: <https://biology-forums.com/index.php?topic=259372>

Question 516

The search is on as the evidence from ethnobotany reveals the genetic potential of wild plants to produce chemicals of medical significance. The scientists exploring the medicinal use of plants by indigenous peoples throughout the world are engaged in

- A) bioengineering.
- B) transnational corporations.
- C) bioprospecting.
- D) creating seed banks.

Answer: <https://biology-forums.com/index.php?topic=258422>

Question 517

When freshwater inflows into estuaries are reduced,

- A) salt water intrudes into the system.
- B) exotic species of plants and invertebrates may invade the estuary.
- C) populations of native species decline.
- D) All of the above.

Answer: <https://biology-forums.com/index.php?topic=258829>

Question 518

Any area protected by the Wild and Scenic Rivers Act of 1968

- A) limits dams to more than 5 miles apart.
- B) permits limited mining and logging only more than 100 feet from the water's edge.
- C) protects these regions like national parks.
- D) is no longer protected because the act has been repealed to build more hydroelectric dams.

Answer: <https://biology-forums.com/index.php?topic=258846>

Question 519

The facilities in this figure are burning soil to remove toxic chemicals before the residue goes to a landfill. This is an example of

- A) bioremediation.
- B) phytoremediation.
- C) hydroponic intervention.
- D) remediation by incineration.

Answer: <https://biology-forums.com/index.php?topic=257300>

Question 520

According to GLASOD, the he main risk of continuing degradation of agricultural land is

- A) an increasing need to rely upon irrigation.
- B) declining agricultural productivity.
- C) the need to shift from grain crops to soybeans.
- D) the need to rely increasingly on herbicides and pesticides.

Answer: <https://biology-forums.com/index.php?topic=258871>

Question 521

With its devastating impact on global health, AIDS

- A) is most abundant in developed countries.
- B) in sub-Saharan Africa is primarily spread through homosexual contact.
- C) in Swaziland is lower than most developed countries due to the increased reliance on condoms.
- D) deaths have declined due to increased funding from developed countries.

Answer: <https://biology-forums.com/index.php?topic=258758>

Question 522

The strips of farmland in this region are used to

- A) reduce wind erosion.
- B) reduce water erosion.
- C) irrigate the fields.
- D) confuse insect pests.

Answer: <https://biology-forums.com/index.php?topic=258935>

Question 523

NIMBY is

- A) a publicly perceived risk of siting a toxic or nuclear waste disposal facility near their homes.
- B) the U.S. federal agency that oversees nuclear power facilities.
- C) a U.N. organization in Geneva that directs the medical use of radioactive isotopes.
- D) the deciding factor in the approval of the Yucca Mountain disposal site in Nevada.

Answer: <https://biology-forums.com/index.php?topic=259270>

Question 524

The unusual organisms living in Australia have evolved primarily because of

- A) the unique position of Australia on the face of Earth.
- B) shifting ocean currents around the continent.
- C) long term isolation of the continent.
- D) the unusual climates of Australia.

Answer: <https://biology-forums.com/index.php?topic=258305>

Question 525

- A power tower concentrates solar energy by
- A) heating water in pipes that run along rows of mirrors.
 - B) using one very large glass lens to focus sunlight.
 - C) using a large field of mirrors to direct sunlight to a specific location.
 - D) collecting light in a series of fiber optic cables directed to underground steam rooms.

Answer: <https://biology-forums.com/index.php?topic=259342>

Question 526

- The most recent Cairo population conference in 1994 linked
- A) poverty, modern medicine, and water quality.
 - B) development, modern medicine, and food production.
 - C) sanitation, poverty, and agricultural development.
 - D) poverty, population growth, and development.

Answer: <https://biology-forums.com/index.php?topic=258697>

Question 527

- The most recent Cairo population conference in 1994 found widespread agreement that the greatest way to help developing countries was to
- A) limit their population growth.
 - B) increase their use of modern medicine.
 - C) improve their agricultural productivity.
 - D) limit their environmental degradation.

Answer: <https://biology-forums.com/index.php?topic=258698>

Question 528

- Which one of the following best describes the state of a system's energy as entropy increases?
- A) more concentrated
 - B) increased
 - C) decreased
 - D) less concentrated

Answer: <https://biology-forums.com/index.php?topic=258202>

Question 529

- Which of the following would be expected to have the greatest impact in reducing the demand for electric-power-generating plants in the United States?
- A) installing very efficient geothermal systems to cool homes in the summer
 - B) increasing the number of hybrid electrical cars in the United States
 - C) adopting policies that promote salmon migrations by removing dams
 - D) requiring companies to turn off all lights on weekends when nobody is working

Answer: <https://biology-forums.com/index.php?topic=259151>

Question 530

- Maintaining sustainable human exploitation of ecosystem capital will be increasingly difficult because of
- A) overreliance on grains and other plants as a significant portion of the human diet.
 - B) expanding number of viral and bacterial human diseases.
 - C) growing pressure from human population on Earth.
 - D) changing temperature and rainfall patterns

Answer: <https://biology-forums.com/index.php?topic=258530>

Question 531

- According to 2011 World Bank studies, which of the following is an example of the dominant form of wealth for most countries?
- A) minerals and fossil fuels
 - B) fisheries, forests, and large supplies of water
 - C) machinery, vehicles, highways, and stock investments
 - D) the intangible wealth of education and educational systems

Answer: <https://biology-forums.com/index.php?topic=258089>

Question 532

- Sustainable exploitation of natural ecosystems will most likely
- A) increase the ecosystem capital of the ecosystem.
 - B) decrease the ecosystem capital of the ecosystem.

- C) maintain the ecosystem capital of the ecosystem.
- D) convert the natural resources into ecosystem capital.

Answer: <https://biology-forums.com/index.php?topic=258526>

Question 533

As you watch the demolition of an old office building, you see truck after truck hauling away large chunks of concrete, steel, and other building materials. Then you start to wonder, where are they taking all of this material and will it be safe? A friend comments to you, it's fine, the federal government has people to make sure they do this properly. You start to wonder, and then you recall that the disposal of nonhazardous industrial waste is controlled by

- A) the U.S. Department of Health and Human Services.
- B) the U.S. Department of Commerce.
- C) the U.S. Department of Housing and Urban Development.
- D) states and local government, not the federal government.

Answer: <https://biology-forums.com/index.php?topic=257055>

Question 534

The 1970 Clean Air Act and subsequent environmental regulations have resulted in

- A) reductions in lead by about 89%.
- B) reductions in carbon monoxide by about 10%.
- C) surprising increases in sulfur dioxide levels by about 5%.
- D) surprising increases in radon levels by about 20%.

Answer: <https://biology-forums.com/index.php?topic=256784>

Question 535

These fires on the Cuyahoga River raised concerns that contributed to

- A) the formation of the U.S. Food and Drug Administration.
- B) the passage of the Clean Water Act of 1972.
- C) laws requiring the separation of sewage and storm water in cities.
- D) the passage of the Federal Water Pollution Control Act.

Answer: <https://biology-forums.com/index.php?topic=256913>

Question 536

One of the most common and essential ways that modern cities have become more livable is by

- A) shifting emphasis from personal automobiles to public transportation.
- B) decreasing the density of the population throughout the cities.
- C) eliminating all city taxes and instead relying upon federal aid.
- D) requiring all citizens to perform monthly community service.

Answer: <https://biology-forums.com/index.php?topic=257470>

Question 537

Consulting government data and other scientific studies, Jasmine considers the different ways that she might commute to her job in downtown Toronto, Canada. She might walk 20 blocks or so through a busy downtown, which means crossing many city streets every day. If she drives a car to work, it could be difficult and dangerous in the traffic. Taking a bus might be best, but she once had her purse stolen on a bus and remains concerned about riding a bus again. As Jasmine considers her options, she is engaging in

- A) a cost-benefit analysis.
- B) a technical analysis.
- C) risk assessment.
- D) a tertiary calculation.

Answer: <https://biology-forums.com/index.php?topic=256522>

Question 538

The equipment in this photograph is used to minimize erosion. This equipment is used

- A) to create shelterbelts and chemically fertilize the soil.
- B) to plow the soil, plant seeds and create strip cropping in one operation.
- C) for no-till planting.
- D) for contour strip farming.

Answer: <https://biology-forums.com/index.php?topic=258933>

Question 539

Submerged aquatic vegetation will most likely thrive when water clarity is

- A) low and dissolved nutrients are high.
- B) low and dissolved nutrients are low.
- C) high and dissolved nutrients are high.
- D) high and dissolved nutrients are low.

Answer: <https://biology-forums.com/index.php?topic=257004>

Question 540

Based upon the history of the U.S. federal government's involvement in controlling water pollution, which one of the following scenarios would have most likely occurred?

- A) In 1908, federal inspectors reported unacceptably high levels of petroleum products in a river.
- B) In 1926, a city receives a federal grant for one million dollars to improve its handling of industrial wastes draining into a nearby river.
- C) In 1947, agents of the federal Environmental Protection Agency fined a company for dumping industrial waste into a local stream.
- D) In 1952, federal agents advised a city on the best way to handle its sewage and storm water.

Answer: <https://biology-forums.com/index.php?topic=256908>

Question 541

The Food Quality Protection Act replaced the Delaney clause in 1996. This changed the standard from banning pesticide residues on food that present

- A) any risk of cancer to a reasonable certainty of no harm.
- B) a reasonable certainty of no harm to any risk of cancer.
- C) a high risk of cancer to a slight risk of cancer.
- D) some risk of cancer to no chance of cancer.

Answer: <https://biology-forums.com/index.php?topic=259122>

Question 542

The cleanup of toxic wastes at orphan or abandoned sites, without responsible parties, is largely addressed by

- A) local governments.
- B) state governments.
- C) money raised from gasoline taxes and pollution fines.
- D) federal superfund money.

Answer: <https://biology-forums.com/index.php?topic=257291>

Question 543

To feed its young, an owl captures mice that eat grains. The owl also eats small snakes that feed on these mice. The diet of owls represents the roles of

- A) a primary and secondary consumer.
- B) a secondary and tertiary consumer.
- C) an herbivore and a carnivore.
- D) a producer and a consumer.

Answer: <https://biology-forums.com/index.php?topic=258331>

Question 544

In general, problems caused by economic activities are

- A) characteristic of small populations.
- B) usually temporary.
- C) addressed by laws and public policies.
- D) not environmental problems.

Answer: <https://biology-forums.com/index.php?topic=258060>

Question 545

Which of the following involves blue water?

- A) percolation of water through soil
- B) transpiration of water from leaves on a bright sunny day
- C) evaporation of water from a lake on a windy day
- D) the formation of a dense layer of fog on a cold fall day

Answer: <https://biology-forums.com/index.php?topic=258784>

Question 546

If water is depleted from an aquifer faster than the recharge rate,

- A) the water table will rise.
- B) surface water will stop percolating downward.

- C) wetlands will flood.
- D) sinkholes may form.

Answer: <https://biology-forums.com/index.php?topic=258830>

Question 547

Biochemical oxygen demanding wastes (BOD) include

- A) phosphorus and nitrogen-based fertilizers.
- B) sand, silt, and clay suspended in water.
- C) fish, aquatic insects, algae and other live aquatic organisms.
- D) organic biodegradable material that requires oxygen to be decomposed by bacteria.

Answer: <https://biology-forums.com/index.php?topic=256960>

Question 548

This figure indicates that most airline travel occurs at

- A) the lowest atmospheric temperatures.
- B) the highest atmospheric pressure.
- C) altitudes above 300 miles.
- D) atmospheric levels with the lowest pollution.

Answer: <https://biology-forums.com/index.php?topic=256752>

Question 549

Which of the following best illustrates sound science?

- A) asking voters to determine if windmills should be placed in their community
- B) measuring wind velocities to determine the cost-effectiveness of windmills in a region
- C) selecting a source of energy based upon profitability and yield of tax dollars
- D) lobbying government officials to increase drilling for offshore oil

Answer: <https://biology-forums.com/index.php?topic=258012>

Question 550

Marker-assisted breeding allows

- A) desired bacterial genes to be inserted into crops.
- B) beneficial animal genes to be inserted into crops.
- C) crop improvements without resorting to transgenic traits.
- D) plants that have been bioengineered to be easily identified in the field.

Answer: <https://biology-forums.com/index.php?topic=258988>

Question 551

Methyl mercury is a neurotoxin most likely to be consumed when you

- A) eat contaminated produce.
- B) drink water polluted by sulfur and nitrogen oxides.
- C) eat fish in which the toxin bioaccumulates.
- D) breathe air contaminated by photochemical smog.

Answer: <https://biology-forums.com/index.php?topic=256827>

Question 552

About 40% of the land's primary production on Earth

- A) has been appropriated to meet human needs.
- B) has been destroyed by global climate change.
- C) uses more oxygen than it produces.
- D) has been lost just to build enough homes for all of the people on Earth.

Answer: <https://biology-forums.com/index.php?topic=258382>

Question 553

The public's perception of risk is largely shaped by

- A) the media.
- B) reading scientific reports on environmental hazards.
- C) taking environmental science courses in high school or college.
- D) political affiliation.

Answer: <https://biology-forums.com/index.php?topic=256548>

Question 554

Threatened and endangered species receive special protection from human activities such as hunting and habitat destruction because these activities may continue despite the species' low numbers. These human activities therefore

- A) are density independent.
- B) are density dependent.
- C) represent bottom-up regulation.
- D) represent harmful abiotic resistance.

Answer: <https://biology-forums.com/index.php?topic=258257>

Question 555

The lionfish is

- A) an introduced invasive species that is causing declines in native Caribbean reef fish.
- B) an invasive species in the Caribbean but is controlled by local predators.
- C) threatened in many parts of its range but is recovering thanks to the REEF program.
- D) valued by local Caribbean communities because of its value as food.

Answer: <https://biology-forums.com/index.php?topic=258514>

Question 556

The map in this figure represents the location of the world's major

- A) prairie/grassland biomes.
- B) forest biomes.
- C) biomes severely impacted by drought.
- D) desert biomes.

Answer: <https://biology-forums.com/index.php?topic=258555>

Question 557

Which part of the government is responsible for passing public-policy laws?

- A) executive branch
- B) judicial branch
- C) legislative branch
- D) EPA

Answer: <https://biology-forums.com/index.php?topic=258104>

Question 558

Over the past 50 years, interest in nuclear power

- A) rose, decreased, and now is increasing again.
- B) decreased, rose, and now is decreasing again.
- C) has remained high around the world.
- D) was high but then declined and continues to decline worldwide.

Answer: <https://biology-forums.com/index.php?topic=259297>

Question 559

Synthetic fertilizers are responsible for releasing an extremely potent greenhouse gas,

- A) methane.
- B) carbon dioxide.
- C) nitrous oxide.
- D) carbon monoxide.

Answer: <https://biology-forums.com/index.php?topic=259036>

Question 560

The pesticides that also function as endocrine disruptors cause disease by

- A) causing excessive secretion of stomach acids.
- B) mimicking the effects of estrogenic hormones.
- C) causing muscle spasms and cramping in major muscle groups.
- D) greatly reducing the ability of the intestines to absorb nutrients.

Answer: <https://biology-forums.com/index.php?topic=259070>

Question 561

Burning fossil fuels in a low oxygen environment will most likely produce

- A) carbon monoxide.
- B) hydrogen peroxide.
- C) sulfuric acid.
- D) methane.

Answer: <https://biology-forums.com/index.php?topic=256776>

Question 562

Which of the following is a uniquely human trait?

- A) ability to regulate our reproduction
- B) long term parental care of offspring
- C) communication between members of a species
- D) storage of food during cold or dry periods

Answer: <https://biology-forums.com/index.php?topic=258611>

Question 563

The problems of where to locate new landfills has

- A) increased transportation costs.
- B) reduced the use of incinerators.
- C) reduced the amount of recycling.
- D) increased the total amount of MSW.

Answer: <https://biology-forums.com/index.php?topic=257105>

Question 564

Hydroelectric power

- A) generally requires the construction of dams.
- B) does not contribute to global warming.
- C) is a renewable source of energy.
- D) All of the above.

Answer: <https://biology-forums.com/index.php?topic=258844>

Question 565

Current photovoltaic technology uses sunlight to generate electricity

- A) with a single structure in a single step.
- B) by heating up water and using microscopic hydroturbines.
- C) in the process of microfusion.
- D) while generating small amounts of methane for use as a fuel in other applications.

Answer: <https://biology-forums.com/index.php?topic=259333>

Question 566

Introduced alien species that cause the most harm are those that

- A) struggle to fit into new ecosystems and eventually die out.
- B) eventually become naturalized.
- C) become invasive.
- D) become agricultural products.

Answer: <https://biology-forums.com/index.php?topic=258309>

Question 567

The best ecosystem management requires

- A) good stewardship and sustainability.
- B) planned disturbances and careful timing.
- C) restoration ecologists.
- D) government regulation and control.

Answer: <https://biology-forums.com/index.php?topic=258395>

Question 568

If ethanol production in the United States more than doubles between 2015 and 2022, it will need to rely on

- A) even more corn that will not be available to feed the hungry people of the world.
- B) second-generation biofuel using enzymes that convert cellulose to fermentable sugar.
- C) manure and other animal wastes to generate methane, which in turn is used to produce alcohol.

D) any plant material and enzymes that convert sugars into cellulose, methane, and oxygen.

Answer: <https://biology-forums.com/index.php?topic=259368>

Question 569

In logistic growth (an S-shaped curve), how does population growth change as the population nears its carrying capacity?

- A) Population growth increases.
- B) Population growth remains steady.
- C) Population growth decreases.
- D) Population growth typically crashes when a population nears its carrying capacity.

Answer: <https://biology-forums.com/index.php?topic=258241>

Question 570

In the fall, Rose bought some fresh apple cider without preservatives sold by the local orchard. After several weeks stored in the refrigerator, Rose noticed the taste of alcohol in the cider. Friends later told her that she had accidentally made hard cider. Rose wondered how this could happen, and then her friends explained. After some time, natural yeast in her cider

- A) broke down the glucose and made alcohol by fermentation.
- B) produced glucose by the process of alcoholic fermentation.
- C) broke glucose down into alcohol by aerobic respiration.
- D) used photosynthesis to create alcohol and sugars.

Answer: <https://biology-forums.com/index.php?topic=258337>

Question 571

Which one of the following represents a consumptive use of a forest product? A sawmill

- A) collects its sawdust to create wood pellets, used to heat its buildings.
- B) sells its lumber to regional home improvement stores.
- C) collects its sawdust to create wood pellets, which it sells to people with pellet stoves.
- D) uses the lumber it creates to build cabinets, which are then sold to local home improvement stores.

Answer: <https://biology-forums.com/index.php?topic=259360>

Question 572

A country that has undergone a full demographic transition has

- A) a lower birth rate and a higher death rate.
- B) a higher birth rate and a lower death rate.
- C) a higher birth rate and a lower death rate, and is about to undergo industrialization.
- D) a lower birth rate, a lower death rate, and undergone industrialization.

Answer: <https://biology-forums.com/index.php?topic=258683>

Question 573

In 2013 most species in the world go extinct because

- A) of new diseases spread by human contact.
- B) humans harvest them or kill them as pests.
- C) of loss of habitat.
- D) global climate change is causing their environments to rapidly change.

Answer: <https://biology-forums.com/index.php?topic=257991>

Question 574

For more than 20 years, scientists have been analyzing expected climate change and the impact on crops grown in particular regions. For example, states that typically plant corn and soybeans may need to switch to growing cotton. Such a change is an example of

- A) mitigation.
- B) a cap-and-trade policy.
- C) adaptation.
- D) the Precautionary Principle.

Answer: <https://biology-forums.com/index.php?topic=256713>

Question 575

With all of the sun's energy striking the Earth every second of every day, why doesn't the Earth overheat and kill us all?

- A) The Earth is so large and dense that it absorbs all of this heat.
- B) The Earth is overheating regionally, melting rocks into the lava of volcanoes.
- C) The Earth maintains a balance by radiating this heat back into space.
- D) The atmosphere of the Earth prevents the solar radiation from reaching the Earth's surface.

Answer: <https://biology-forums.com/index.php?topic=259315>

Question 576

Some beetles escape from a ship and fly to a small island covered with grass but with no trees or beetle predators. As the beetles feed, they destroy all the grasses. But with abundant food, the beetle population soars, doubling in size every month. After about a year, the population crashes as thousands of beetles have destroyed almost all of the plants and there is little left to feed the large population. This scenario best illustrates

- A) constant growth followed by equilibrium.
- B) a population that has stabilized near its carrying capacity.
- C) exponential growth followed by a population crash.
- D) the fact that the beetles have strong competition from other species for food supply.

Answer: <https://biology-forums.com/index.php?topic=258239>

Question 577

Which of the following is a correlation that is causing widespread concern?

- A) As atmospheric oxygen levels decline, the ozone layer is being destroyed.
- B) As atmospheric carbon dioxide levels decline, the ozone layer is being destroyed.
- C) As levels of methane decline, average global temperatures are increasing.
- D) As levels of carbon dioxide increase, average global temperatures are increasing.

Answer: <https://biology-forums.com/index.php?topic=257987>

Question 578

The reindeer population changes on St. Matthew Island appears to have ultimately been caused by

- A) the absence of any predators.
- B) the addition of a keystone species.
- C) the narrow reliance of reindeer on just a single food species.
- D) the introduction of grizzly bears to the island in 1962.

Answer: <https://biology-forums.com/index.php?topic=258269>

Question 579

If rivers were catching fire today in 2012, what group would most likely be involved to investigate the situation and apply federal laws?

- A) Environmental Defense Fund
- B) Natural Resources Defense Council
- C) Union of Concerned Scientists
- D) Environmental Protection Agency

Answer: <https://biology-forums.com/index.php?topic=258004>

Question 580

The ability of an ecosystem to replenish itself leads to

- A) sustainability.
- B) decreasing consumptive use.
- C) the conversion of ecosystem capital from one form to another.
- D) increasing natural resources but declining ecosystem capital.

Answer: <https://biology-forums.com/index.php?topic=258531>

Question 581

The greatest environmental problems of the 1950s mainly concerned

- A) increasing levels of ultraviolet radiation as the ozone layer was destroyed.
- B) global climate change illustrated by the worldwide decline of thousands of glaciers.
- C) widespread and easily detected water and air pollution.
- D) thousands of nuclear power plants that spread radiation across the globe.

Answer: <https://biology-forums.com/index.php?topic=258001>

Question 582

An oil shortage in 1973 was mainly the result of

- A) increased reliance on foreign oil and global politics.
- B) increased reliance on foreign oil and the law of supply and demand.
- C) a ban on offshore exploration in the United States.
- D) global prosperity and demand for oil globally.

Answer: <https://biology-forums.com/index.php?topic=259173>

Question 583

The 1970 Clean Air Act policy of command and control regulations of air pollution attempted to limit

- A) all of the primary pollutants but not the secondary air pollutants.
- B) the ambient level of air pollutants below the primary standard levels.
- C) levels of air pollutants to 150% of the primary standard levels.
- D) air pollution at the level of the consumer by adding a pollution tax.

Answer: <https://biology-forums.com/index.php?topic=256839>

Question 584

Which of the following are current limiting factors for future human population growth?

- A) pollution and land for agriculture
- B) availability of oxygen and water
- C) fossil fuels and carbon dioxide production
- D) oxygen levels in the atmosphere and availability of sodium chloride

Answer: <https://biology-forums.com/index.php?topic=258633>

Question 585

Which revolution stimulated exponential growth of the human population?

- A) Industrial Revolution
- B) Medical Revolution
- C) Green Revolution
- D) Environmental Revolution

Answer: <https://biology-forums.com/index.php?topic=258622>

Question 586

Which of the following U.S. national parks would be mostly eliminated by a 1-meter rise in sea level?

- A) Glacier National Park
- B) Yellowstone National Park
- C) Everglades National Park
- D) Yosemite National Park

Answer: <https://biology-forums.com/index.php?topic=256668>

Question 587

Radioactive wastes consist of

- A) the direct products of fission.
- B) the indirect products of fission.
- C) the direct and indirect products of fission.
- D) the direct and indirect products of fusion.

Answer: <https://biology-forums.com/index.php?topic=259253>

Question 588

The parasitic relationship illustrated in this figure represents a type of

- A) cultural control.
- B) natural enemies control.
- C) genetic control.
- D) natural chemical control.

Answer: <https://biology-forums.com/index.php?topic=259104>

Question 589

Over the past 200 years, the greatest change in agriculture is the

- A) productivity of an acre of farmland.
- B) elimination of global hunger and malnutrition.
- C) production of insect resistant crops.
- D) declining reliance on fertilizers for crops.

Answer: <https://biology-forums.com/index.php?topic=258972>

Question 590

Entering a new job at a small medical testing facility, Ben is cautioned to handle certain chemicals carefully. Wondering what harm some of these

chemicals can potentially cause, Ben asks a coworker. The coworker says, "Well, I think they can cause cancer if you breathe the fumes." Ben wants to know for sure. According to OSHA guidelines, Ben should

- A) read the relevant material data safety sheets.
- B) search the Internet for medical articles related to these compounds.
- C) ask the supervisors about the dangers of the substances he handles.
- D) check the information on the HAZMAT signs in his workplace.

Answer: <https://biology-forums.com/index.php?topic=257335>

Question 591

Which of the following does not represent a common-pool resource?

- A) fish in a river
- B) trees in a forest
- C) money stored in a bank
- D) wildlife in a prairie

Answer: <https://biology-forums.com/index.php?topic=258770>

Question 592

Fog is a component of the

- A) hydrosphere.
- B) biosphere.
- C) atmosphere.
- D) lithosphere.

Answer: <https://biology-forums.com/index.php?topic=258172>

Question 593

Which one of the following reduces net GDP?

- A) a coal-fired power plant that pollutes the air
- B) manufacture of products to clean polluted water
- C) clear-cutting logging of 1000 acres of pine trees
- D) degradation of farm equipment

Answer: <https://biology-forums.com/index.php?topic=258092>

Question 594

Global climate change threatens coral reefs by

- A) decreasing the temperature and increasing the pH of the oceans.
- B) decreasing both the temperature and the pH of the oceans.
- C) increasing the temperature and decreasing the pH of the oceans.
- D) increasing both the temperature and the pH of the oceans.

Answer: <https://biology-forums.com/index.php?topic=258584>

Question 595

Nearly 300 million years ago, dragonflies existed that were the size of large hawks today. Some scientists believe that these giants could fly then, but not today, because oxygen in the atmosphere was much higher. If oxygen levels 300 million years ago were 50% higher than today, what percentage of the atmosphere would have consisted of oxygen for these giant dragonflies?

- A) 30%
- B) 20%
- C) 10%
- D) 2%

Answer: <https://biology-forums.com/index.php?topic=256736>

Question 596

Which of the following has a negative effect on radiative forcing?

- A) methane
- B) nitrous oxide
- C) sulfate aerosols
- D) carbon dioxide

Answer: <https://biology-forums.com/index.php?topic=256676>

Question 597

The discovery that the threatened Brazilian mariqui monkey requires secondary rather than primary rainforest for habitat has

- A) shown that preservation (monkeys) and conservation (forest) strategies can work together.
- B) given farmers the green light to convert all local primary forests for agricultural use.
- C) given rise to a policy of prohibiting human intrusion into both primary and secondary forest.
- D) resulted in the withdrawal of protective policies for both monkeys and primary forests.

Answer: <https://biology-forums.com/index.php?topic=258548>

Question 598

In 1910, President Theodore Roosevelt said "I recognize the right and duty of this generation to develop and use the natural resources of our land; but I do not recognize the right to waste them, or to rob, by wasteful use, the generations that come after us." His message best reflects

- A) an argument for economic growth.
- B) a plea for good stewardship.
- C) an argument against sustainable agriculture.
- D) a philosophy in conflict with Rachel Carson's.

Answer: <https://biology-forums.com/index.php?topic=258042>

Question 599

A population of bullfrogs in a pond produces many thousands of eggs each spring that hatch out into tadpoles. However, only about 1% of the tadpoles survive to reproduce. This population of frogs is experiencing

- A) low environmental resistance.
- B) low levels of recruitment.
- C) unlimited population growth.
- D) exponential growth.

Answer: <https://biology-forums.com/index.php?topic=258246>

Question 600

Which of the following would most likely have the greatest impact on a large ecosystem?

- A) loss of a keystone species from the ecosystem
- B) construction of a two-lane gravel road through the middle of the ecosystem
- C) construction of a lodge and trails to permit better access for ecotourists
- D) allow the ecosystem to burn on a natural cycle

Answer: <https://biology-forums.com/index.php?topic=258487>

Question 601

Long-term storage of military nuclear waste

- A) remains unresolved, as nuclear materials continue to accumulate on U.S. bases in many regions.
- B) will be combined with commercial nuclear waste when a suitable storage facility is constructed.
- C) is no longer an issue as methods to convert this waste into nuclear fuel has addressed this problem.
- D) has been shipped to a central location in New Mexico for more than a decade.

Answer: <https://biology-forums.com/index.php?topic=259273>

Question 602

A much greater use of breeder or fast-neutron reactors would pose a greater safety risk because fast-neutron reactors would generate greater amounts of

- A) heavy water, which can easily leak out into the local community near nuclear power plants.
- B) radon gas, which over many years can greatly increase the risk of cancer in the region surrounding a nuclear plant.
- C) plutonium, which is more easily used to construct nuclear weapons.
- D) lead, which is widely used in the creation of bullets and other ammunitions.

Answer: <https://biology-forums.com/index.php?topic=259291>

Question 603

As an urban region experiences urban sprawl, the

- A) number and size of roadways decrease.
- B) number of farms and parks increase.
- C) number of shopping malls increases.
- D) reliance on public transportation increases.

Answer: <https://biology-forums.com/index.php?topic=257376>

Question 604

Suspicious citizens worry about the large amounts of toxic materials handled by the large pesticide manufacturer just outside the city limits. These citizens contact the mayor of the town with their concerns. The mayor says that according to the EPCRA guidelines, the official center for information

about their concerns and the handling of any associated emergencies would be

- A) the corporate office of the company.
- B) the local emergency planning committee.
- C) the EPA.
- D) their elected state and federal officials.

Answer: <https://biology-forums.com/index.php?topic=257341>

Question 605

Which of the following would inhibit the production of biogas in a fermentation chamber commonly used by small farmers?

- A) double the overall size of the fermentation chamber
- B) add equal parts of manure and water into the chamber and reseal the top
- C) leave the lid off of the top of the fermentation chamber
- D) collect biogas from an enclosed fermentation chamber

Answer: <https://biology-forums.com/index.php?topic=259363>

Question 606

If the total global production of grains cannot be significantly increased in the next 50 years, and the human population continues to increase, by perhaps 50%, how will we feed the people without destroying the world? One strategy that would likely succeed is to

- A) increase our use of fossil fuels in agriculture.
- B) engineer plants that can grow without sunlight.
- C) greatly reduce the amount of meat in our diets.
- D) increasingly rely on fungi for nutritional needs.

Answer: <https://biology-forums.com/index.php?topic=258979>

Question 607

In the near future, the number of nuclear power plants in the United States and throughout the world will most likely

- A) decline.
- B) hold steady.
- C) increase.
- D) depend upon the price of oil.

Answer: <https://biology-forums.com/index.php?topic=259288>

Question 608

Which of the following represents a market approach to environmental policy?

- A) passing laws that limit the amount of mercury that can be released by a coal-fired power plant
- B) regulations that require storm water and sewage to be separated in municipal water treatment plants
- C) using a cap-and-trade system to control the levels of carbon dioxide released into the air
- D) limiting the amount of national forests available for timber harvesting

Answer: <https://biology-forums.com/index.php?topic=258107>

Question 609

In general, global primary productivity

- A) increases towards the equator.
- B) decreases towards the equator.
- C) increases towards the poles.
- D) is greatest in North America.

Answer: <https://biology-forums.com/index.php?topic=258398>

Question 610

The bird in this figure is a fish-eating osprey with its chicks. What commonly used pesticide nearly caused the extinction of this and other large predatory bird species in the 1970s?

- A) malathion
- B) Round Up
- C) DDT
- D) pyrethroids

Answer: <https://biology-forums.com/index.php?topic=259086>

Question 611

Small subsistence farms in developing nations

- A) had a sustainable use of the environment when populations were small.

- B) have mostly depleted the natural environment making farming no longer possible.
- C) can support the developing populations at up to ten times their current population size.
- D) have polluted rivers and streams and destroyed surrounding forests.

Answer: <https://biology-forums.com/index.php?topic=258656>

Question 612

The age structure of the country in this figure reflects

- A) an increasing fertility rate.
- B) a fertility rate that has declined.
- C) the impact of increased immigration into the country.
- D) a war or pandemic sometime between 50-70 years ago.

Answer: <https://biology-forums.com/index.php?topic=258677>

Question 613

In its broadest sense, fitness reflects the ability to respond to

- A) other members of the same species.
- B) abiotic environmental factors.
- C) all factors of environmental resistance.
- D) parasites and other agents of disease.

Answer: <https://biology-forums.com/index.php?topic=258274>

Question 614

Which one of the following sources of energy is most sustainable?

- A) natural gas used to heat homes
- B) gasoline used to run cars
- C) hydroelectric dams
- D) a coal-fired electrical power plant

Answer: <https://biology-forums.com/index.php?topic=258036>

Question 615

Solar trough power generating plants are currently best suited for a place like

- A) England
- B) Phoenix, Arizona.
- C) a montane tropical cloud forest.
- D) Seattle, Washington.

Answer: <https://biology-forums.com/index.php?topic=259339>

Question 616

Which one of the following is not an example of geoengineering?

- A) injecting sulfate aerosols into the stratosphere
- B) erecting large carbon dioxide scrubbers to sequester carbon dioxide in deep reservoirs
- C) seeding the oceans with iron to promote the growth of phytoplankton
- D) erecting large fields of wind turbines to generate electricity to power automobiles

Answer: <https://biology-forums.com/index.php?topic=256715>

Question 617

One argument opponents to constructing new nuclear power plants use is that

- A) construction costs are very low now but will increase in decades to come.
- B) there is a major problem in disposing of nuclear wastes and with possible terrorist attacks.
- C) there is no demand for nuclear power with coal and natural gas so plentiful and cheap.
- D) nuclear power plants are major contributors to global climate change.

Answer: <https://biology-forums.com/index.php?topic=259302>

Question 618

Which of the following is analogous to a mutualistic relationship?

- A) A basketball player is paid by a company to wear its particular brand of shoes.
- B) A deer hunter stalks and kills a large buck.
- C) A thief breaks into a store and steals some precious jewels.
- D) Young lovers leave their initials carved onto a tree, which then gets diseased and dies.

Answer: <https://biology-forums.com/index.php?topic=258258>

Question 619

Ecotones

- A) contain only species found in the bordering ecosystems.
- B) have the same abiotic characteristics as the bordering ecosystems.
- C) consist of many distinct landscapes.
- D) are transitional regions between ecosystems.

Answer: <https://biology-forums.com/index.php?topic=258150>

Question 620

Most thermometers used by students in laboratories contain alcohol, which replaced

- A) lead, known to cause insanity and crippling birth defects.
- B) lead, known to cause mental retardation.
- C) mercury, known to cause insanity and crippling birth defects.
- D) mercury, known to cause mental retardation.

Answer: <https://biology-forums.com/index.php?topic=257261>

Question 621

The Maldive Islands are in immediate danger from global climate change because

- A) the coral reefs which are their major tourist attraction are dying.
- B) the islands have a mean elevation of three feet above sea level.
- C) the islands are constantly pounded by hurricanes generated by warmer sea water.
- D) increased rainfall has flooded much of the agricultural land.

Answer: <https://biology-forums.com/index.php?topic=256550>

Question 622

Malaria, dengue fever, and yellow fever are most common in

- A) North America.
- B) Australia and New Zealand.
- C) countries located near the equator.
- D) countries that are located nearest the poles.

Answer: <https://biology-forums.com/index.php?topic=256495>

Question 623

Which one of the following is one of the most important components of concentrated solar power?

- A) photovoltaic cells
- B) inertia
- C) wind turbines
- D) mirrors or reflectors

Answer: <https://biology-forums.com/index.php?topic=259340>

Question 624

The Basel Convention deals with the regulation of

- A) lawsuits of injured parties against polluting industries.
- B) international exports of hazardous wastes.
- C) the cleanup of toxic spills in international waters.
- D) the use of toxic chemicals in developing nations.

Answer: <https://biology-forums.com/index.php?topic=257361>

Question 625

A farm field that has used only inorganic fertilizer for the past 20 years is most likely to have

- A) fewer soil organisms and less soil structure but increased nutrient holding capacity.
- B) fewer soil organisms, less soil structure, and decreased nutrient holding capacity.
- C) more soil organisms, more soil structure, and increased nutrient holding capacity.
- D) more soil organisms, less soil structure, and decreased nutrient holding capacity.

Answer: <https://biology-forums.com/index.php?topic=258929>

Question 626

The history of bottle laws in the United States reveals that as of 2010, there are

- A) 24 states with bottle laws, 3 states have repealed them, and they result in a return rate of about 50%.
- B) 11 states with bottle laws, no states have repealed them, and they result in a return rate of about 75%.
- C) 3 states with bottle laws, one state repealed them, and they result in a return rate of about 25%.
- D) 37 states with bottle laws, 3 states have repealed them, and they result in a return rate of about 60%.

Answer: <https://biology-forums.com/index.php?topic=257169>

Question 627

Leafy spurge has spread completely across many US states. If left uncontrolled in these states, leafy spurge populations will

- A) never experience environmental resistance.
- B) eventually reach their carrying capacity.
- C) shift from a J-curve to a constant rate of growth.
- D) shift from a logistic curve to a J-shaped growth curve.

Answer: <https://biology-forums.com/index.php?topic=258236>

Question 628

Instead of only generating more electricity, rising energy demands may also be met by

- A) switching from natural gas to coal.
- B) switching from coal and natural gas to windmills and solar technologies.
- C) increasing the efficiency of energy consumption.
- D) using more nuclear power instead of fossil fuels.

Answer: <https://biology-forums.com/index.php?topic=259158>

Question 629

The Great Sunflower Project

- A) has the goal of restoring native sunflowers to areas in the Midwest where they are now extinct.
- B) invites local citizens to observe and document pollinators which are in decline.
- C) is attempting to preserve flower species by inserting into them genes from other species.
- D) is the basis of a large organic agriculture project involving flowers with edible seeds.

Answer: <https://biology-forums.com/index.php?topic=258503>

Question 630

Sustainable economic and environmental policies will shift the focus from

- A) sustainability to productivity.
- B) growth to the well-being of humans.
- C) productivity to growth.
- D) productivity to profits.

Answer: <https://biology-forums.com/index.php?topic=258070>

Question 631

Widely applying pesticides may lead to resurgence and secondary-pest outbreaks because

- A) the insecticide also killed the natural competitors and predators of the pests.
- B) the plants have now lost their ability to fight the pests.
- C) pesticides typically harm plants in ways that take several years to appear.
- D) new species that are more resistant to insecticides have evolved.

Answer: <https://biology-forums.com/index.php?topic=259064>

Question 632

In general, centrally planned economies are run to promote the

- A) interests of society, while free-market economies depend on the self-interests of individuals.
- B) prosperity of all countries, while free-market economies promote the particular interests of a society.
- C) self-interests of individuals, while free-market economies promote the interests of governments.
- D) health of the environment, while free-market economies sacrifice sustainability.

Answer: <https://biology-forums.com/index.php?topic=258065>

Question 633

Which one of the following best illustrates an ecological landscape?

- A) a pond and all of the living organisms within it
- B) the animals, plants, and bacteria living in the Mississippi River
- C) a large open prairie with bison grazing on grasses and insects visiting the flowers
- D) a river flowing past fields and forests in Yellowstone National Park

Answer: <https://biology-forums.com/index.php?topic=258152>

Question 634

The most promising solution to the global problem of depleted cod populations is to

- A) raise baby cod in commercial hatcheries and release them into the ocean.
- B) encourage people across the world to eat other fish species.
- C) apply the principles used in the management of Pacific halibut.
- D) encourage better methods for catching cod that are otherwise not harvested.

Answer: <https://biology-forums.com/index.php?topic=258574>

Question 635

Which of the following currently is the most sustainable and affordable source of water in the face of global warming?

- A) using rotary displacement pumps to desalinate seawater
- B) using hydroelectric dams to generate electricity to pump aquifers for irrigation
- C) using coal generated electricity to desalinate seawater
- D) using natural gas to generate electricity to melt glaciers

Answer: <https://biology-forums.com/index.php?topic=258851>

Question 636

Radon is an odorless radioactive gas that you cannot taste or see. Exposure to this naturally occurring gas can be dangerously high in any home in North America. Homes must be specially tested for exposure levels for residents to understand their risks. If risks are high, venting systems can be installed to significantly lower indoor levels of exposure. The most likely health problem associated with long-term exposure to this radioactive gas is

- A) a stroke or heart attack.
- B) lung cancer.
- C) elevated blood pressure.
- D) obesity leading to diabetes.

Answer: <https://biology-forums.com/index.php?topic=259260>

Question 637

Although people living in the highest-density populations in urban areas generally live long, healthy lives, global overpopulation remains a problem because

- A) environmental impacts are not always experienced where resources are consumed.
- B) the greatest environmental problems are concentrated in these high-density populations.
- C) people in these regions have the highest fertility rates.
- D) the destruction of the ozone layer has affected agricultural output.

Answer: <https://biology-forums.com/index.php?topic=258650>

Question 638

Thousands of cases of lung cancer occur in a two-year period in a city outside of Kentucky, at rates that are double that seen in other cities in the United States. Scientists working in that region assume that

- A) there is something peculiar to the region causing these unusually high rates.
- B) the medical reports from the area are incorrect.
- C) government policies and regulations are most likely the cause of this increase in cancer.
- D) this is most likely just an unlucky occurrence, like a baseball team that suffers through a losing streak.

Answer: <https://biology-forums.com/index.php?topic=258016>

Question 639

Unlike solar and wind facilities, coal-burning and nuclear power plants

- A) can be constructed more quickly.
- B) can be added gradually as demand grows.
- C) can consistently generate electricity at night.
- D) do not pose as great a security risk.

Answer: <https://biology-forums.com/index.php?topic=259345>

Question 640

In a photovoltaic system, an inverter is required to

- A) directly convert surplus electricity into heat.
- B) generate electricity from solar energy.
- C) connect the DC current of the solar panel to the AC current of an electrical grid.
- D) convert AC from the solar panel into DC of the grid.

Answer: <https://biology-forums.com/index.php?topic=259335>

Question 641

People most concerned about the side effects of bioengineering would more likely accept

- A) food crops that have been engineered to produce vaccines.
- B) transgenic crops that are more resistant to herbicides.
- C) crops produced by marker-assisted breeding.
- D) food crops that are able to make their own pesticides.

Answer: <https://biology-forums.com/index.php?topic=258989>

Question 642

The species most vulnerable to extinction are those that are

- A) endemic and limited to a single population.
- B) endemic and widespread in several large regions.
- C) genetically diverse and found in many regions.
- D) widespread but are not dominant in an ecosystem.

Answer: <https://biology-forums.com/index.php?topic=258432>

Question 643

Which of the following are processes that generally reverse each other?

- A) evaporation and precipitation
- B) transpiration and evaporation
- C) precipitation and infiltration
- D) condensation and infiltration

Answer: <https://biology-forums.com/index.php?topic=258785>

Question 644

The new federally funded Brownfield Act has been a success by providing cleanup of real or perceived sites of environmental contamination that are not serious enough to reach Superfund status. This has been especially important in the creation of

- A) waterways for the transportation of coal and oil.
- B) new national parks in several states.
- C) economic development in disadvantaged communities.
- D) new wildlife refuges for outdoor recreation and conservation purposes.

Answer: <https://biology-forums.com/index.php?topic=257307>

Question 645

Using its authority from a new rule issued under the Clean Air Act in 2011, the EPA

- A) can require a 90% reduction of mercury emissions from power plants.
- B) can reintroduce leaded gasoline beginning in 2014.
- C) can permit chromium, tin and arsenic in fungicides dispensed with fertilizers.
- D) will require coal-fired power plants to remove heavy metals from coal before it is burned.

Answer: <https://biology-forums.com/index.php?topic=257257>

Question 646

Drip irrigation systems are

- A) less efficient than traditional flood or center-pivot systems.
- B) cheaper, compared to traditional flood or center-pivot systems.
- C) producing greater crop yields.
- D) used for most irrigation of crops in the United States.

Answer: <https://biology-forums.com/index.php?topic=258854>

Question 647

Today, regulations for pesticide use on foods

- A) are extra sensitive to those foods eaten by older adults.
- B) ban substances shown to cause more than one cancer case in 1,000 over a typical lifetime of exposure.
- C) must consider only the pesticide exposure from eating exposed food.
- D) apply to raw and processed foods equally.

Answer: <https://biology-forums.com/index.php?topic=259124>

Question 648

The EPA's efforts to enforce the Clean Water Act for CAFOs, mountaintop removal mining, and storm water discharges have been opposed by

- A) political interests supporting the industries affected by regulation.
- B) fishing organizations.
- C) supporters of the Endangered Species Act.
- D) the CDC on the grounds that regulation will increase water-borne diseases.

Answer: <https://biology-forums.com/index.php?topic=257048>

Question 649

The Obama administration

- A) now censors scientific study that conflicts with its position.
- B) no longer requires consultation with wildlife experts before approving projects potentially harming endangered species.
- C) now encourages the development of renewable energy and reduction of carbon emissions.
- D) has slashed the EPA's budget so that little enforcement is possible.

Answer: <https://biology-forums.com/index.php?topic=258132>

Question 650

Although acid precipitation has been reduced over the past two decades, progress has been slowed by

- A) U.S. Supreme Court rulings that are very favorable to the energy industry.
- B) the increased use of gasoline that contains high levels of sulfur dioxide.
- C) the continuing and increasing impact of nitrogen deposition.
- D) the increased reliance on high sulfur coal by the power industries.

Answer: <https://biology-forums.com/index.php?topic=256873>

Question 651

Building on scientific research and careful measurements, the 1987 Montreal Protocol represented

- A) global stewardship to limit the destruction of the ozone.
- B) agreements to maintain sustainable levels of agricultural productivity.
- C) sound science to better understand the impact of acid precipitation.
- D) stewardship by the Canadian government to limit the production of greenhouse gases.

Answer: <https://biology-forums.com/index.php?topic=256888>

Question 652

Which of the following is part of natural capital but not ecosystem capital?

- A) solar energy used to drive photosynthesis throughout the biosphere
- B) coal and oil reserves
- C) the production of electrical energy from wind turbines and dams
- D) the genetic diversity of all plants and animals used in modern agriculture

Answer: <https://biology-forums.com/index.php?topic=258078>

Question 653

As of 2012, China's

- A) population has doubled.
- B) fertility rate has declined from 4.5 to 1.5.
- C) population has 400 million more people than it would have had without the one-child policy.
- D) solution to population growth has been endorsed strongly by the 1994 Cairo Conference.

Answer: <https://biology-forums.com/index.php?topic=258746>

Question 654

In many freshwater toxicology studies, investigators rely upon knowledge of biomagnification to guide their investigations. If the researchers were looking for evidence of mercury contamination from a nearby power plant, they would most likely find the highest levels in the blood of

- A) herbivorous ducks living near the power plant.
- B) rabbits that live near the power plant.
- C) tadpoles in water near the power plant.
- D) snapping turtles in water near the power plant.

Answer: <https://biology-forums.com/index.php?topic=259080>

Question 655

The value of many natural ecosystem services is most apparent as

- A) we appreciate the damages and economic loss that result from the disruption of these ecosystems.
- B) new technologies allow us to more fully exploit the natural capital of these ecosystems.
- C) research into alternate energy resources continues.
- D) new species are discovered and described by scientists.

Answer: <https://biology-forums.com/index.php?topic=258588>

Question 656

Reliance on the continued use of fossil fuels is not sustainable because fossil fuels are

- A) concentrated in countries that are not politically stable.
- B) not significant sources of energy and are increasing in cost.
- C) not renewable and contribute to global climate change.
- D) not renewable and are primarily from politically unstable regions.

Answer: <https://biology-forums.com/index.php?topic=259223>

Question 657

Looking at the number of nuclear power plants under construction in 2010,

- A) the largest numbers have been in the United States, Canada, and France.
- B) China, the Russian Federation and India are in the lead.
- C) nuclear power is on the way out globally, with coal-fired plants rising steeply.
- D) the IAEA predicts that the current trend will be reversed.

Answer: <https://biology-forums.com/index.php?topic=259301>

Question 658

Which of the following was not a consequence of the Neolithic Revolution?

- A) specialization of labor
- B) establishment of cities and cultural centers
- C) trade with other human populations
- D) increased mortality

Answer: <https://biology-forums.com/index.php?topic=258615>

Question 659

The Kesterson Effect can result from efforts to restore land that are affected by

- A) sewage contamination.
- B) severe wind erosion.
- C) severe water erosion.
- D) salinization.

Answer: <https://biology-forums.com/index.php?topic=258944>

Question 660

When people in developing countries cannot produce enough food to eat, they commonly

- A) start poaching.
- B) start raising drug-related crops.
- C) move to cities.
- D) begin raising large herds of cattle.

Answer: <https://biology-forums.com/index.php?topic=258658>

Question 661

The spread of Integrated Pest Management (IPM) continues because

- A) traditional methods using pesticides are being outlawed.
- B) IPM eliminates pests completely and does not create pesticide resistance.
- C) the benefits of IPM are many and the costs are greatly reduced.
- D) government regulations worldwide are mandating these techniques.

Answer: <https://biology-forums.com/index.php?topic=259114>

Question 662

The large structures in this photograph are

- A) smokestacks from a coal-fired power plant.
- B) special wind turbines that capture swirling wind to produce electricity.
- C) towers used to cool water heated by a coal-fired power plant.

D) combustion chambers used to burn natural gas to generate electricity.

Answer: <https://biology-forums.com/index.php?topic=259159>

Question 663

The Delaney clause of the FFDCA became increasingly problematic because

- A) of the introduction of new pesticides.
- B) organic farming required the elimination of all traces of pesticides from certified organic products.
- C) more sensitive analytical chemical techniques could detect previously unknown traces of pesticides.
- D) humans appear to be more and more sensitive to carcinogenic compounds.

Answer: <https://biology-forums.com/index.php?topic=259121>

Question 664

As of 2012, the United States

- A) has passed comprehensive legislation for GHG reduction.
- B) has many state and local GHG reduction policies, but no national policy.
- C) Congress has formally acknowledged that global climate change is a hoax.
- D) ships most of its sequestered CO₂ to developing nations for storage.

Answer: <https://biology-forums.com/index.php?topic=256726>

Question 665

You finish your canned drink and get ready to throw it out. A garbage can is right nearby, but the recycling bin is a few more steps. Should you bother to recycle aluminum cans? Does it really make a difference? Remember that most electrical energy in the U.S. is generated from fuels that contribute to global climate change. So, when you recycle an aluminum can, about how much energy is saved compared to the amount needed to make a new can from scratch?

- A) 10-20%
- B) 30-40%
- C) 50-60%
- D) 85-95%

Answer: <https://biology-forums.com/index.php?topic=257159>

Question 666

Increasing the kinetic energy of liquid water enough to permit water molecules to break completely away from each other occurs as

- A) steam forms.
- B) ice freezes.
- C) water flows in a stream.
- D) rain forms.

Answer: <https://biology-forums.com/index.php?topic=258790>

Question 667

In the classical view of economic activity, households

- A) are paid for goods and services.
- B) pay for most of the labor.
- C) consume goods and services.
- D) provide most of the products.

Answer: <https://biology-forums.com/index.php?topic=258061>

Question 668

Which one of the following principles of smart-growth will most likely result in less commuting for all residents?

- A) have states purchase open spaces
- B) set physical boundaries on urban sprawl
- C) build new homes and stores on existing abandoned or brownfield urban properties
- D) promote the integration of homes, stores, light industry, and professional offices

Answer: <https://biology-forums.com/index.php?topic=257436>

Question 669

Many of the 1.6 billion people who lack electricity live in rural regions where

- A) nuclear energy is well suited.
- B) hydroelectric energy is the best energy resource.
- C) hydrogen fuel cells are best used.
- D) solar energy is best used.

Answer: <https://biology-forums.com/index.php?topic=259346>

Question 670

In downtown Philadelphia, water in storm drains most likely came from

- A) sinks.
- B) toilets.
- C) lawns.
- D) bathroom showers.

Answer: <https://biology-forums.com/index.php?topic=256963>

Question 671

From the 1930s to the 1950s, an X-ray machine called a shoe-fitting fluoroscope was common in shoe stores. People would try on shoes, stand with their feet in the machine, and allow the salesperson to view live images of the bones of their feet in the shoes! Sometimes the salesperson would reach down and adjust the person's shoes for a better image. These machines used X-rays and exposed the feet of customers to 5-30 seconds of radiation. Further, lower doses of radiation exposure also occurred within about 10-15 inches of the outside of the machine. If you were looking for medical problems resulting from the use of these fluoroscopes in shoe stores, where would you expect the greatest harm?

- A) customers who had their feet exposed to the X-ray device
- B) the salespeople who operated the machine to sell shoes
- C) salespeople who worked in nearby stores
- D) the salesperson who worked behind the cash register in the store

Answer: <https://biology-forums.com/index.php?topic=259258>

Question 672

Which of the following is responsible for about half of all air pollution in the United States?

- A) coal-fired power plants
- B) railroad trains
- C) cars, trucks, and buses
- D) paper mills and steel mills

Answer: <https://biology-forums.com/index.php?topic=256846>

Question 673

The greatest threats to ground water supplies are

- A) groundwater pollution and depletion.
- B) global warming and the construction of dams.
- C) increased evaporation and increased precipitation.
- D) evapotranspiration and runoff.

Answer: <https://biology-forums.com/index.php?topic=258848>

Question 674

Which of the following is not a major factor determining the natural distribution of giant pandas on Earth?

- A) the evolutionary history of giant pandas
- B) the distribution and abundance of bamboo in China
- C) the type and abundance of giant panda parasites
- D) the success rates of giant panda captive breeding programs

Answer: <https://biology-forums.com/index.php?topic=258136>

Question 675

The safe movement of hazardous materials by rail or highway in the United States is regulated by

- A) individual states and cities.
- B) the Department of Transportation.
- C) the regulations of the RCRA.
- D) the Justice Department.

Answer: <https://biology-forums.com/index.php?topic=257331>

Question 676

Over the past three years, 24 people living in a new subdivision develop respiratory infections and skin rashes. People living nearby in a subdivision built 30 years previously show no signs of such disease. Suspicions arise about possible molds or vapors that are associated with imported building materials in these new homes. To investigate the possibility that the new homes are causing the disease, the neighborhood association in the new subdivision decides to hire

- A) a herpetologist.

- B) respiratory therapist.
- C) a virologist.
- D) a toxicologist.

Answer: <https://biology-forums.com/index.php?topic=256518>

Question 677

In the process of photosynthesis,

- A) potential energy in light is converted to kinetic energy of chemical bonds.
- B) energy in light is converted to potential energy of chemical bonds.
- C) potential energy in glucose is use to generate kinetic energy in heat.
- D) kinetic energy of heat is used to combine the potential energy of oxygen and water.

Answer: <https://biology-forums.com/index.php?topic=258208>

Question 678

Two conflicting approaches to helping countries through the demographic transition require different types of aid. An attempt to provide aid using both approaches might include

- A) desalination plants to bring in more fresh water and distribution of vaccines.
- B) shipments of large amounts of food and improvements in sanitation systems.
- C) construction of recycling plants and investment in pollution control systems.
- D) investments in banks and distribution of birth control.

Answer: <https://biology-forums.com/index.php?topic=258696>

Question 679

The nuclear reactor design indicated in this figure is an improvement on old designs because it has

- A) water as a coolant.
- B) control rods.
- C) passive safety features.
- D) fewer working parts.

Answer: <https://biology-forums.com/index.php?topic=259280>

Question 680

Biotechnology may be able to promote sustainability by

- A) reducing the need for herbicides.
- B) permitting deep plowing without risk of erosion.
- C) allowing more land to be brought into agricultural production.
- D) reducing the use of pesticides.

Answer: <https://biology-forums.com/index.php?topic=258987>

Question 681

The preparation and publication of the book Silent Spring represented which stage of the policy life cycle?

- A) control
- B) implementation
- C) formulation
- D) recognition

Answer: <https://biology-forums.com/index.php?topic=258109>

Question 682

Your doctor orders X-rays taken of your upper chest and back. As you lay down and prepare for the X-ray to be taken, a lead blanket is rested over your lower abdomen. The assistant placed the lead blanket on your abdomen to

- A) reflect the X-rays to your shoulder.
- B) shield your gonads from irradiation.
- C) push you firmly against the table for a clear photo of your chest.
- D) steady you, so that you do not move as they take the X-ray image.

Answer: <https://biology-forums.com/index.php?topic=259255>

Question 683

The best way to address obesity is with

- A) a diet primarily of dairy products and whole grains.
- B) hard physical labor and a high protein diet.
- C) food aid and educational programs.

D) a diet based on a balanced "food plate" selection, exercise, and limits on fats and sugars.

Answer: <https://biology-forums.com/index.php?topic=259018>

Question 684

If in the next decade, nuclear power plants were tripled in the United States, we would expect

- A) oil prices to increase.
- B) strip-mining of coal to decrease.
- C) the price of natural gas to increase.
- D) decreased interest in electric cars.

Answer: <https://biology-forums.com/index.php?topic=259247>

Question 685

Water in the oceans may become fresh water available to humans through the processes of

- A) evaporation, condensation, and precipitation.
- B) transpiration, purification, and precipitation.
- C) precipitation and infiltration.
- D) condensation and infiltration.

Answer: <https://biology-forums.com/index.php?topic=258779>

Question 686

Which of the following represents the Millennium Development Goal that is least likely to be achieved?

- A) universal primary education
- B) reduced child mortality
- C) increased access to clean drinking water
- D) decreased maternal childbirth deaths

Answer: <https://biology-forums.com/index.php?topic=258725>

Question 687

Some farmers near an ocean must irrigate their soybean crops to have any success. Desperate and without a source of fresh water, one of them decides to irrigate his field with seawater. The other farmer captures rain in special traps and lightly irrigates his crops. What would we expect are the results of these different forms of irrigation?

- A) The seawater irrigation plants produce many beans while the light irrigation produces few beans.
- B) The seawater irrigation kills the plants while the light irrigation produces few beans.
- C) Both forms of irrigation produce good crops with moderate production of beans.
- D) The seawater crops last longer than the fresh water crops, but only the seawater crops produce beans.

Answer: <https://biology-forums.com/index.php?topic=258905>

Question 688

Which of the following is an anthropogenic source of acid deposition?

- A) sea spray
- B) volcanic eruptions
- C) extensive natural forest fires
- D) gasoline engine emissions from automobiles

Answer: <https://biology-forums.com/index.php?topic=256796>

Question 689

Which one of the following loops is least susceptible to pollution?

- A) evapotranspiration loop.
- B) surface runoff loop.
- C) precipitation loop.
- D) groundwater loop.

Answer: <https://biology-forums.com/index.php?topic=258809>

Question 690

Breeder or fast-neutron reactors generate more fuel than they use because

- A) these reactors capture the energy of extra neutrons released by ^{235}U fissions.
- B) the Second Law of Thermodynamics does not apply to nuclear reactions.
- C) of solar collectors that invest the energy of the sun into new fuel.
- D) the heat that is usually released in standard reactors is mostly recaptured.

Answer: <https://biology-forums.com/index.php?topic=259292>

Question 691

The new IRIS and NCEA programs of the EPA

- A) work globally with U.N. agencies to detect pathogens in imported foods.
- B) write policy for the U.S. Congress to shape legislation on toxic chemicals
- C) publish and create databases on chemicals released into the environment that may pose health risks.
- D) have produced an index for the risk of suffering from asthma in U.S. cities.

Answer: <https://biology-forums.com/index.php?topic=256547>

Question 692

The new RCRA requirements for the disposal of toxic wastes will prevent midnight dumping by

- A) requiring all landfills to have a permit.
- B) requiring all toxic wastes to be converted to forms that will not leach.
- C) tracking the generation, movement, and disposal of all wastes.
- D) banning the disposal of all toxic wastes anywhere in the United States.

Answer: <https://biology-forums.com/index.php?topic=257329>

Question 693

Currently, the main benefit of using corn-based ethanol in the United States is

- A) a significant reduction in the generation of carbon dioxide.
- B) reduced reliance on imported oil.
- C) the improved mileage of ethanol versus gasoline.
- D) the generation of biogas.

Answer: <https://biology-forums.com/index.php?topic=259365>

Question 694

The rerouting of the Mississippi to increase the efficiency of movements of steamboats and barges was the result of the

- A) Industrial Revolution.
- B) Medical Revolution.
- C) Green Revolution.
- D) Environmental Revolution.

Answer: <https://biology-forums.com/index.php?topic=258617>

Question 695

Which of the following is a major fossil fuel that has benefited from the recent construction of pipelines within the United States?

- A) oil
- B) natural gas
- C) coal
- D) nuclear energy

Answer: <https://biology-forums.com/index.php?topic=259144>

Question 696

Japan's 55 nuclear power plants are susceptible to tsunami damage because they

- A) fail to meet basic structural criteria for safety.
- B) are all located along coastlines for easy access to coolant water.
- C) use nuclear fuels that are water soluble.
- D) do not shut down either in response to the earthquakes or tsunamis.

Answer: <https://biology-forums.com/index.php?topic=259226>

Question 697

If alternate fuels for vehicles could be sustainably and efficiently obtained by growing plants in the United States, we would expect

- A) more jobs for U.S. citizens.
- B) an increase in the balance-of-payment deficit.
- C) another U.S. economic recession.
- D) more oil would need to be pumped from offshore oil wells.

Answer: <https://biology-forums.com/index.php?topic=259184>

Question 698

The early Industrial Revolution primarily relied on fossil fuels to

- A) run gasoline engines.
- B) run power plants that generated electricity.
- C) generate steam.
- D) generate heat and electricity.

Answer: <https://biology-forums.com/index.php?topic=259134>

Question 699

Reproductive isolation is not a good way to describe the status of a species that

- A) is photosynthetic.
- B) lives in the same region as other closely related species.
- C) reproduces asexually.
- D) is able to move about freely in its environment.

Answer: <https://biology-forums.com/index.php?topic=258141>

Question 700

The Endangered Species Act

- A) has been subject to political pressures and now operates on year-to-year budget extensions.
- B) protects only those species that are of great economic significance.
- C) must take into consideration the economic impact of the species listed.
- D) expired in 1992 and has since been replaced by increased hunting and fishing regulations.

Answer: <https://biology-forums.com/index.php?topic=258496>

Question 701

Every winter morning when the sun is shining bright, a man pulls back the drapes on a large south facing window. Here in Montana, he knows that he can help heat his home this way using

- A) conductive solar heating.
- B) active solar heating.
- C) radioactive solar heating.
- D) passive solar heating.

Answer: <https://biology-forums.com/index.php?topic=259326>

Question 702

Hadley cells at the equator consist of

- A) rising, moist air that produces precipitation and rain forests, and falling dry air associated with deserts.
- B) rising, dry air associated with deserts and falling moist air that produces precipitation and rain forests.
- C) warm, moist air rising up the sides of mountains and cool, dry air descending on the leeward sides.
- D) cool, dry air rising up the sides of mountains and warm, moist air descending on the leeward sides.

Answer: <https://biology-forums.com/index.php?topic=258801>

Question 703

Which problem today is primarily the result of the Industrial Revolution?

- A) extensive air and water pollution
- B) increased transmission of disease between people living in close proximity
- C) decline in quality of agricultural soil
- D) erosion from deforestation as more fuel wood is harvested

Answer: <https://biology-forums.com/index.php?topic=258618>

Question 704

The lessons learned from Rachel Carson's Silent Spring reveal the importance of

- A) sustainability and stewardship.
- B) junk science and the influence of politics in government.
- C) global communication and equity in trade with other cultures.
- D) the need to establish more state and national parks.

Answer: <https://biology-forums.com/index.php?topic=258052>

Question 705

Ultimately, the sunlight energy that strikes Earth is

- A) eventually lost into space as heat.
- B) stored permanently in molecules that are located deep within the Earth.
- C) stored permanently in minerals and rocks deep within the oceans.

D) converted to potential energy and stored in animals and plant tissues permanently.

Answer: <https://biology-forums.com/index.php?topic=258216>

Question 706

In general, as countries become more industrialized and developed,

- A) use of contraception decreases.
- B) the cost of raising children decreases.
- C) people marry at an earlier age.
- D) support of the elderly increases.

Answer: <https://biology-forums.com/index.php?topic=258710>

Question 707

The Santa Cruz River in Arizona has suffered from depletion from irrigation withdrawal for decades, and now natural and social scientists are asking stakeholders to

- A) observe a ten year moratorium on irrigation.
- B) help develop a user policy by identifying the river's services of major economic importance.
- C) bid at auction for the right to use the river for irrigation.
- D) take as much water as they can before the river runs completely dry.

Answer: <https://biology-forums.com/index.php?topic=258547>

Question 708

Compared to the inner city, the families living in these suburban homes are most likely

- A) wealthier Caucasians.
- B) younger, poor people who are also Caucasians.
- C) older and less affluent people representing ethnic minorities.
- D) younger and wealthier people representing ethnic minorities.

Answer: <https://biology-forums.com/index.php?topic=257447>

Question 709

In the aftermath of Mt. Pinotubo's eruption, local effects

- A) included acid rain, erosion, and mudslides.
- B) subsided after a few days.
- C) on climate have produced numerous extinctions.
- D) on soils have left most of the Philippines without fertile soil.

Answer: <https://biology-forums.com/index.php?topic=258318>

Question 710

The use of biomass energy is illustrated by burning

- A) coal to produce electricity.
- B) natural gas for heat.
- C) logs in a fireplace to heat a cabin.
- D) oil in a kerosene lantern.

Answer: <https://biology-forums.com/index.php?topic=259356>

Question 711

In short, different selective pressures in closely related species will produce

- A) similar migration patterns.
- B) similar reproductive strategies.
- C) different adaptations.
- D) new mutations.

Answer: <https://biology-forums.com/index.php?topic=258298>

Question 712

Some students on a biology field trip were sitting around watching honey bees. Some of the students noticed that bees spent more time on some flowers than on other flowers. As they talked about this behavior, the students offered various explanations. Some thought that the bees were avoiding predators on some flowers while other students suggested that some flowers may have sweeter nectar. These speculations about bee behavior are examples of

- A) data.
- B) bias.
- C) theories.

D) hypotheses.

Answer: <https://biology-forums.com/index.php?topic=258025>

Question 713

Which one of the following produces the least air pollution?

- A) an automobile burning hydrogen as a fuel
- B) an automobile running on a hydrogen fuel cell
- C) a Toyota Prius hybrid vehicle
- D) a car running on natural gas

Answer: <https://biology-forums.com/index.php?topic=259379>

Question 714

Resource management for the poor of the world is most vital as it relates to

- A) investment by developed nations.
- B) the generation of taxes for the government.
- C) common-pool resources.
- D) family planning.

Answer: <https://biology-forums.com/index.php?topic=258771>

Question 715

The formation of sea salt aerosols help to clean the air by promoting the formation of

- A) rain.
- B) nitrogen oxides.
- C) temperature inversions.
- D) many types of sulfur compounds.

Answer: <https://biology-forums.com/index.php?topic=256746>

Question 716

The most stable predator-prey relationships typically involve

- A) a prey species and several natural predators.
- B) two species of carnivores eating each other.
- C) only bottom-up population regulation.
- D) only top-down population regulation.

Answer: <https://biology-forums.com/index.php?topic=258268>

Question 717

Which one of the following is the best analogy to the movements of continents by plate tectonics?

- A) a worm tunneling through soil
- B) noodles drifting throughout a cup of chicken noodle soup
- C) air mattresses drifting about on the top of a swimming pool
- D) a train running along its tracks

Answer: <https://biology-forums.com/index.php?topic=258302>

Question 718

In the case of indoor air pollutants, increasing the insulation in a home will most likely

- A) increase the risk of developing an infectious disease.
- B) decrease acute reactions to pollutants already in the home.
- C) decrease the chances of developing chronic respiratory diseases.
- D) increase the chances of developing chronic respiratory diseases.

Answer: <https://biology-forums.com/index.php?topic=256509>

Question 719

In recent years, the World Bank has

- A) increasingly invested in projects that increase development at the expense of the poor.
- B) stopped loaning money to countries that are unlikely to repay their loans.
- C) changed its mission to fighting poverty.
- D) cooperated with the United Nations to provide food and medical support to developing nations.

Answer: <https://biology-forums.com/index.php?topic=258730>

Question 720

The local health department is trying to limit the spread of West Nile virus in a suburban community. West Nile Virus is spread by mosquitoes as they feed. In newspapers and on the radio, people in the region are told to drain standing water from any places where mosquitoes might breed. In addition, the health department announces that in a week, they will begin spraying a fog of mosquito poison in the early evening, as soon as the sun sets and mosquitoes become most active. The approach taken by this health department best represents

- A) chemical treatment.
- B) agricultural treatment.
- C) ecological control.
- D) integrated pest management.

Answer: <https://biology-forums.com/index.php?topic=259048>

Question 721

Some biologists have identified symbiotic relationships in which it appears that one organism gains from the relationship while the other organism is unaffected. Although after further research, the researchers find out that both members of the relationship actually benefit. The researchers therefore realize that what they at first thought was an example of

- A) mutualism is really an example of commensalism.
- B) commensalism is really an example of mutualism.
- C) symbiosis is really an example of parasitism.
- D) symbiosis is really an example of amensalism.

Answer: <https://biology-forums.com/index.php?topic=258282>

Question 722

One of the greatest success stories of the positive impact of chemistry research and environmental policies and regulations relates to

- A) nitrogen oxides and the control of acid precipitation.
- B) CFCs and the destruction of the ozone.
- C) the reduction of ozone pollution over major cities in North America.
- D) the use of fossil fuels and the reversal of global climate changes.

Answer: <https://biology-forums.com/index.php?topic=256886>

Question 723

The thinning of the troposphere away from the equator is primarily a result of

- A) land masses moving towards the poles.
- B) shifting of the continental plates due to plate tectonics.
- C) differences in solar energy striking the Earth.
- D) the number of clouds in the mesosphere and thermosphere.

Answer: <https://biology-forums.com/index.php?topic=256570>

Question 724

When college students first learn about the invasion of zebra mussels into the Great Lakes about 25 years ago, they frequently ask what controls zebra mussel populations in their native regions. If introducing natural zebra mussel predators into the Great Lakes would not cause new problems, this approach might work as an example of

- A) cultural control.
- B) natural enemies control.
- C) genetic control.
- D) natural chemical control.

Answer: <https://biology-forums.com/index.php?topic=259094>

Question 725

The choices to live in ever-expanding suburbs, despite the costs to society and the environment, reflects a choice that places greater value on

- A) common good over personal good.
- B) personal good over common good.
- C) resource services over environmental services.
- D) environmental services over human services.

Answer: <https://biology-forums.com/index.php?topic=257428>

Question 726

The relationships among elk predators represent

- A) the impacts of overgrazing.
- B) a set of keystone species.

- C) interspecific competition.
- D) biotic potential.

Answer: <https://biology-forums.com/index.php?topic=258270>

Question 727

Which one of the following energy sources is most likely to lead to thermal pollution?

- A) a coal-fired power plant
- B) a large field of windmills
- C) a hydroelectric plant
- D) a large field of solar cells

Answer: <https://biology-forums.com/index.php?topic=259156>

Question 728

Most plants do best in soils with a pH that is

- A) below 2.
- B) between 6-8.
- C) between 8-10.
- D) above 10.

Answer: <https://biology-forums.com/index.php?topic=258906>

Question 729

The current crisis in controlling bedbugs has encountered difficulties because

- A) bedbugs are vectors for serious human diseases and require powerful chemical pesticides.
- B) home applications of effective pesticides can endanger children.
- C) the only way to get any control is to burn infested bedding.
- D) bedbugs are internal parasites that require long doses of antibiotics to eliminate.

Answer: <https://biology-forums.com/index.php?topic=259038>

Question 730

In general, whale watching

- A) has provided scientific and conservation value for whales.
- B) encourages the sale of whale meat and other whale-derived products.
- C) has disrupted the natural social interactions of whales and contributed to their population decline.
- D) has had little impact on our scientific understanding of the species because whales do not behave naturally when humans are around.

Answer: <https://biology-forums.com/index.php?topic=258581>

Question 731

The changes in this field, from grasses to shrubs to trees, represent

- A) ecological succession.
- B) climax production.
- C) biological evolution.
- D) ecological adaptation.

Answer: <https://biology-forums.com/index.php?topic=258364>

Question 732

The region in this photograph represents the results of a process to

- A) mine coal.
- B) drill for oil.
- C) recover natural gas.
- D) mine uranium for nuclear reactors.

Answer: <https://biology-forums.com/index.php?topic=259211>

Question 733

Burkina Faso represents a nation in which

- A) there is a strong middle class, allowing women to marry later, find employment and have small families.
- B) long life spans have produced a large elderly population, supported by good social services.
- C) many women are illiterate, marry early and have large families, partly because the infant mortality rate is very high.
- D) medical facilities are excellent, and women are having fewer children because infant mortality has dropped dramatically.

Answer: <https://biology-forums.com/index.php?topic=258609>

Question 734

American beavers, *Castor canadensis*, are widespread in North America. Those American beavers living around lakes in northern Minnesota and which can potentially interbreed

- A) are probably a separate beaver species.
- B) represent one population of American beavers.
- C) should look much different than beavers in Wisconsin.
- D) belong to the same family but not the same genus as other beavers.

Answer: <https://biology-forums.com/index.php?topic=258144>

Question 735

Which of the following would be included in the general definition used by the federal government to define MSW?

- A) substances, such as gasoline, that can catch fire easily
- B) household and restaurant garbage
- C) substances such as ammonia and pesticides, which can injure human health
- D) agricultural and mining residues

Answer: <https://biology-forums.com/index.php?topic=257062>

Question 736

After joining the Peace Corps, your assignment is to help spread good agricultural practices to people living in the humid tropics. After receiving training, you tell the local farmers to

- A) use oxen or mules to deep plow and turn the soil to bring deep nutrients to the surface.
- B) dig deeper wells to bring up water reserves that will triple the productivity of their fields.
- C) start a water catchment, apply manure and mulch to their fields and avoid tilling the soil if possible.
- D) shift to crops such as rice, which are more resistant to the natural pests and parasites.

Answer: <https://biology-forums.com/index.php?topic=258873>

Question 737

The specific design of the landfill illustrated in this figure uses a plastic liner that is most essential in landfills located in the state of

- A) Ohio.
- B) Illinois.
- C) Florida.
- D) Texas.

Answer: <https://biology-forums.com/index.php?topic=257122>

Question 738

Which of the following is an abiotic factor limiting this squirrel population?

- A) the hawks in the region
- B) the number of acorns produced annually
- C) the stress of cold winter temperatures
- D) the number of available nesting sites

Answer: <https://biology-forums.com/index.php?topic=258244>

Question 739

Herbicides would be most useful in combating

- A) mosquitoes that spread malaria in tropical rainforests.
- B) weeds that infect our agricultural fields.
- C) bacteria, such as *Salmonella*, which sometimes contaminate meat.
- D) fungi that attack plant roots.

Answer: <https://biology-forums.com/index.php?topic=259044>

Question 740

Which of the following will reduce global population growth in the world?

- A) encouraging women to reproduce earlier
- B) changing the total global fertility rate to 3
- C) decreasing infant mortality in all countries of the world
- D) None of the above

Answer: <https://biology-forums.com/index.php?topic=258666>

Question 741

In a region of eastern Washington state known as the Palouse, farmers grow wheat on steep sloped hills. Which of the following agricultural practices might be of greatest benefit in this region?

- A) use of shelterbelts
- B) contour strip farming
- C) irrigation
- D) repeated plowing

Answer: <https://biology-forums.com/index.php?topic=258932>

Question 742

Which of the following are the greatest health threats in a developing country?

- A) cardiovascular disease, including heart attacks and strokes
- B) poisoning and exposure to carcinogens
- C) conditions arising from poor nutrition and lack of hygiene
- D) injuries from manual labor and agriculture

Answer: <https://biology-forums.com/index.php?topic=258754>

Question 743

One of the advantages of solar generation over the use of fossil fuels is that solar power

- A) can work equally well anywhere in the world.
- B) generates electricity every hour of the day.
- C) uses less expensive technology.
- D) is sustainable.

Answer: <https://biology-forums.com/index.php?topic=259343>

Question 744

Instead of purchasing a new car every 5 years and trading in the old one, a person buys a new, well-built car every 15 years, repairs it as needed, and then trades it in for a new one. This approach reduces the overall impact on the environment and best illustrates

- A) source reduction.
- B) composting.
- C) recycling.
- D) extending the life of a product.

Answer: <https://biology-forums.com/index.php?topic=257144>

Question 745

Disproportionate concerns about the safety of public drinking water versus the greater dangers of cigarette smoking reflect problems of

- A) exposure assessment.
- B) dose-response assessment.
- C) hazard assessment.
- D) public risk perceptions.

Answer: <https://biology-forums.com/index.php?topic=256543>

Question 746

The United States represents about 4.5% of the world's population, yet we consume about

- A) 5% of the world's oil supply.
- B) 15% of the world's oil supply.
- C) 25% of the world's oil supply.
- D) 50% of the world's oil supply.

Answer: <https://biology-forums.com/index.php?topic=259199>

Question 747

What would comprehensive environmental accounting add to the calculation of GDP?

- A) the depreciation of natural capital and reductions in ecosystem services
- B) the depreciation of human capital and the degeneration of social systems
- C) the renewal of natural resources through natural processes
- D) income generated from the sale of non-renewable natural resources

Answer: <https://biology-forums.com/index.php?topic=258093>

Question 748

Microlending has

- A) been limited to Bangladesh and two other countries because it requires specific conditions.
- B) struggled because far too many poor people are unable to pay off their loans under impoverished conditions.
- C) been successful in large part due to considerable investments by the United Nations to cover the losses of more than 40% of the unpaid loans.
- D) produced million of loans, primarily to women, in more than 40 countries.

Answer: <https://biology-forums.com/index.php?topic=258769>

Question 749

The largest reserves of fresh water on Earth are found in

- A) lakes and wetlands.
- B) rivers and groundwater.
- C) aquifers.
- D) polar ice caps and glaciers.

Answer: <https://biology-forums.com/index.php?topic=258780>

Question 750

Using multiple strategies such as cap-and-trade, reforestation, efficiency and renewable energy will be needed to

- A) reduce carbon emissions to 1950 levels by the year 2020.
- B) to mitigate and stabilize carbon emissions at 2005 levels by 2055.
- C) eliminate the use of personal gasoline vehicles in all developed countries by the year 2055.
- D) convince skeptics and deniers that climate change needs to be addressed.

Answer: <https://biology-forums.com/index.php?topic=256711>

Question 751

The lowest-income countries will need to address the Millennium Development Goals by relying on

- A) costs shared equally between domestic sources and wealthy donor countries.
- B) increased harvesting of natural resources.
- C) increased international trade and foreign investments in natural resources.
- D) the development of new technologies that create high-tech jobs and improve health care.

Answer: <https://biology-forums.com/index.php?topic=258727>

Question 752

Over the past 30 years in the United States, nuclear power production

- A) has increased by more than 200%.
- B) has increased by 50%.
- C) has remained steady at around 100 plants.
- D) has declined from nearly 100 to now about 70 plants.

Answer: <https://biology-forums.com/index.php?topic=259229>

Question 753

In general, as income levels rise, dependence on wild income

- A) increases and consumptive use increases.
- B) increases but consumptive use decreases.
- C) decreases but consumptive use increases.
- D) decreases and consumptive use decreases.

Answer: <https://biology-forums.com/index.php?topic=258536>

Question 754

Countries that have completed the demographic transition typically have

- A) good use of technology but only basic medicine.
- B) good use of technology and high per capita income.
- C) high per capita income and high rates of fertility.
- D) high rates of fertility and widespread use of modern medicine.

Answer: <https://biology-forums.com/index.php?topic=258693>

Question 755

In general, buying in bulk is environmentally friendly because it

- A) reduces the total amount of MSW that is generated.
- B) recycles materials that would otherwise wind up in a landfill.
- C) encourages people to eat or use just a little bit more than smaller sizes.
- D) encourages people to eat less or use less of a product.

Answer: <https://biology-forums.com/index.php?topic=257134>

Question 756

Sustainable soil conservation requires

- A) that developing countries maximize short-term strategies for immediate benefits.
- B) long-term effective farming practices by individual landowners and also sound public policy.
- C) individuals to work for the immediate benefit of their particular interests.
- D) an understanding of the natural ability of soils to recover quickly from degradation.

Answer: <https://biology-forums.com/index.php?topic=258946>

Question 757

Farmers in North America in the next 50 years will likely experience

- A) shorter growing seasons.
- B) less predictability in the weather and more extreme weather events.
- C) generally more precipitation.
- D) generally less precipitation.

Answer: <https://biology-forums.com/index.php?topic=256664>

Question 758

Off the northern Atlantic coast, cod populations were severely depleted by the 1990s. Biologists that successfully argued for fishing bans on cod to let the cod populations recover argued for the

- A) aesthetic value of cod.
- B) institutional value of cod.
- C) intrinsic value of cod.
- D) instrumental value of cod.

Answer: <https://biology-forums.com/index.php?topic=258412>

Question 759

Based upon the data in this chart, which one of the following regions has current crop yields that are most consistent with widespread subsistence farming?

- A) East Asia and Pacific
- B) Latin America and Caribbean
- C) South Asia
- D) sub-Saharan Africa

Answer: <https://biology-forums.com/index.php?topic=258982>

Question 760

Energy

- A) and nutrients flow one way through ecosystems.
- B) and nutrients both cycle within ecosystems.
- C) cycles within ecosystems, while nutrients flow only one way through ecosystems.
- D) flows one way through ecosystems, but nutrients cycle within ecosystems.

Answer: <https://biology-forums.com/index.php?topic=258215>

Question 761

In sub-Saharan Africa and Asia, the major nutritional problems relate to

- A) inadequate exercise.
- B) malnutrition in pregnant women.
- C) undernourishment of adults.
- D) malnutrition and undernourishment, especially in children.

Answer: <https://biology-forums.com/index.php?topic=259019>

Question 762

Sustainable agriculture in the long term will require

- A) increasing meat consumption in India and sub-Saharan Africa.
- B) decreasing the use of fossil fuels and synthetic fertilizers.

C) releasing more greenhouse gases than at present.
D) expanding the type of agriculture presently used in developed nations to Africa and southeast Asia.
Answer: <https://biology-forums.com/index.php?topic=259035>

Question 763

If the United States or Sweden had an age structure like a developing country,
A) the current social security system would fail.
B) colleges and universities would expect declining enrollments.
C) the educational system would need to double the number of elementary schools.
D) the retirement age would need to be raised.
Answer: <https://biology-forums.com/index.php?topic=258681>

Question 764

You want to purchase 5 pounds (80 ounces) of potato chips for your group's party. You can buy the chips packaged in many different ways. Which of the following represents the best way to reduce excessive packaging and the MSW burden on the environment? To reduce the greatest amount of packaging, you should purchase
A) two 40-ounce bags.
B) four 20-ounce bags.
C) six 15-ounce bags.
D) ten 8-ounce bags.
Answer: <https://biology-forums.com/index.php?topic=257132>

Question 765

The main categories of biomes are based on differences in
A) climatic conditions.
B) the ratio of plants to animals in the biome.
C) the particular continent on which they are found.
D) the density of the plants in the biome.
Answer: <https://biology-forums.com/index.php?topic=258516>

Question 766

Sustainable solutions should
A) incorporate the concerns of economists, ecologists, and sociologists.
B) emphasize ecology over all other fields.
C) emphasize economics over all other fields.
D) emphasize ecological and social issues over economic concerns.
Answer: <https://biology-forums.com/index.php?topic=258038>

Question 767

Which one of the following is characteristic of a K-selected species?
A) fast reproductive rate
B) large body size
C) short life span
D) production of large numbers of offspring
Answer: <https://biology-forums.com/index.php?topic=258248>

Question 768

Organisms with a very broad range of temperature tolerance would most likely occur in
A) the oceans.
B) tropical environments.
C) the Midwestern United States.
D) Hawaii.
Answer: <https://biology-forums.com/index.php?topic=258162>

Question 769

Which of the following has the highest albedo?
A) a green tent
B) a blacktop road
C) a healthy oak tree
D) snow on top of ice on a pond

Answer: <https://biology-forums.com/index.php?topic=256643>

Question 770

As a result of measures to control acid-deposition in North America, over the last 20 years emissions of sulfur dioxide have been

- A) steady, with little decrease in acid-deposition due to rising levels of nitrogen oxides.
- B) reduced by about 10%, at great cost to the power producing industry.
- C) reduced to target levels at about the projected cost of compliance.
- D) reduced beyond target levels and at 10% of the projected compliance costs.

Answer: <https://biology-forums.com/index.php?topic=256870>

Question 771

In the figure, the location of deserts in the northern and southern regions of Africa are best explained by understanding

- A) Hadley cells.
- B) how mountains affect precipitation patterns.
- C) the affect of oceans on adjacent land masses.
- D) global climate change.

Answer: <https://biology-forums.com/index.php?topic=258865>

Question 772

If a nuclear reactor generates the expected amount of heated water but no electricity, it is most likely a problem with the

- A) fuel rods.
- B) control rods.
- C) moderator.
- D) turbogenerator.

Answer: <https://biology-forums.com/index.php?topic=259249>

Question 773

This region just outside of Las Vegas illustrates

- A) a pedestrian mall and green community.
- B) a rust-belt area.
- C) urban blight.
- D) urban sprawl.

Answer: <https://biology-forums.com/index.php?topic=257395>

Question 774

The fishing method in this figure

- A) is an effective way to prevent overharvesting of commercial species.
- B) reveals a design that is intended to limit bycatch.
- C) results in environmental degradation similar to clear-cutting a forest.
- D) assures below TAC levels in compliance with the Magnuson Act.

Answer: <https://biology-forums.com/index.php?topic=258576>

Question 775

The vast slums surrounding major cities in the developing world are occupied by people who

- A) could afford to live elsewhere.
- B) typically own small, simple homes.
- C) vote in large numbers and have great influence on local politics.
- D) represent an essential workforce for the cities in which they live.

Answer: <https://biology-forums.com/index.php?topic=257452>

Question 776

The information of an energy pyramid reveals that

- A) it is expensive and inefficient to get most of your dietary calories from meats.
- B) it is expensive and inefficient to get most of your dietary calories from grains.
- C) consumers at lower trophic levels do not have as many calories as consumers at higher trophic levels.
- D) consumers at higher trophic levels are usually more abundant than consumers at lower trophic levels.

Answer: <https://biology-forums.com/index.php?topic=258341>

Question 777

Which one of the following best illustrates a type of mitigation in response to global climate change?

- A) using natural gas instead of coal to generate electricity
- B) constructing and using wind turbines to generate electricity
- C) using scrubbers to remove sulfur from coal before burning it to generate electricity
- D) using coal-generated electricity to power electric cars

Answer: <https://biology-forums.com/index.php?topic=256600>

Question 778

In very broad terms, as the cost of a manufactured good increases,

- A) the longer it lasts, and less MSW is generated.
- B) the longer it lasts, but more MSW is generated.
- C) the shorter it lasts, but less MSW is generated.
- D) the shorter it lasts, and more MSW is generated.

Answer: <https://biology-forums.com/index.php?topic=257128>

Question 779

Compared to sound science, junk science

- A) is anything that threatens or contradicts your point of view.
- B) is anything that confirms your point of view.
- C) does not conform to the established rigors of sound science.
- D) does not include bias or subjective values.

Answer: <https://biology-forums.com/index.php?topic=258034>

Question 780

The major factor determining whether the thermohaline currents flow near the surface or on the bottom of oceans is

- A) pH.
- B) pollutants.
- C) Hadley cells.
- D) water temperature and density.

Answer: <https://biology-forums.com/index.php?topic=258820>

Question 781

Rachel Carson was particularly critical of the use of DDT to

- A) control the spread of Dutch elm disease.
- B) eradicate mosquitoes in wetland areas.
- C) control pests in national parks.
- D) fertilize large areas of corn and soy crops.

Answer: <https://biology-forums.com/index.php?topic=256449>

Question 782

Natural gas

- A) can be converted to a liquid synthetic oil costing only slightly more per barrel than conventional oil.
- B) can be transported only in gas form, making the movement of natural gas over oceans impossible.
- C) may help extend the oil economy by several decades.
- D) cannot be used to power automobiles or public transportation.

Answer: <https://biology-forums.com/index.php?topic=259203>

Question 783

The worst case scenario of a disaster at a nuclear power plants is the

- A) injury or death of the people working within the power plant.
- B) destruction of the costly nuclear fuel used in the plant leading to a thermonuclear explosion
- C) destruction of the entire nuclear power plant and loss of electrical generating capacity.
- D) large scale meltdown, release and fallout of radioactive particles over thousands of square miles.

Answer: <https://biology-forums.com/index.php?topic=259276>

Question 784

Chattanooga, Tennessee is a shining example of a city that has

- A) long suffered from urban sprawl and urban blight.
- B) moved from urban sprawl and urban blight to increasing sustainability.
- C) become completely self-sufficient, requiring no resources from outside the city limits.

D) rigidly enforced its criminal laws and demonstrated the benefits of a tough-on-crime policy.

Answer: <https://biology-forums.com/index.php?topic=257485>

Question 785

In the United States, the Toxics Release Inventory monitors and reports the release of more 600 chemicals from

- A) industries, small businesses, and homes.
- B) industries and small businesses but not homes.
- C) industries but not small businesses or homes.
- D) natural sources, such as volcanoes and natural oil spills.

Answer: <https://biology-forums.com/index.php?topic=257243>

Question 786

In such a system, fish feed on shrimp that feed on the bacteria. This food chain represents a

- A) tertiary consumer eating a secondary consumer eating a primary consumer.
- B) primary consumer eating a secondary consumer eating a tertiary consumer.
- C) consumer eating a producer which then consumes chemoautotrophic bacteria.
- D) secondary consumer eating a primary consumer which then eats a producer.

Answer: <https://biology-forums.com/index.php?topic=258326>

Question 787

If the climate of an environment is rapidly changing, which one of the following organisms would most likely go extinct?

- A) a bacterial species that exchanges genetic material with other bacteria
- B) a species of fish that only reproduces asexually
- C) a large interbreeding population of snails
- D) a plant species that can reproduce both asexually and sexually

Answer: <https://biology-forums.com/index.php?topic=258291>

Question 788

In general, in developed countries, MSW is more likely to be recycled at a higher percentage when

- A) the population densities are high.
- B) the population densities are low.
- C) the country relies on nuclear energy.
- D) the country is located near an ocean.

Answer: <https://biology-forums.com/index.php?topic=257072>

Question 789

The Chernobyl nuclear accident about 25 years ago

- A) resulted in only five deaths and the loss of less than two square miles of land.
- B) spread large amounts of deadly radiation over thousands of square miles.
- C) avoided a complete core meltdown because of heroic intervention by two men who later died from radiation exposure.
- D) was cleaned up and the nuclear reactor rebuilt in 1994 and has been free of problems ever since.

Answer: <https://biology-forums.com/index.php?topic=259275>

Question 790

The most effective antimalarial strategies involve the use of

- A) DDT, bed nets, and quick access to drug treatment.
- B) DDT, immunization, and the drainage of all standing water in a region.
- C) immunizations, surgery, and a change in diet.
- D) sterilization of mosquitoes, treatment of mosquito breeding sites, and antibiotics.

Answer: <https://biology-forums.com/index.php?topic=256498>

Question 791

Which of the following best represents primary recycling?

- A) collecting up old clothing, cleaning it, and using the clothing to stuff new toy dolls
- B) collecting up newspapers and reusing them to make more newspaper
- C) shredding plastic water bottles to make lawn furniture
- D) recycling plastic garbage bags to make decking and railing materials

Answer: <https://biology-forums.com/index.php?topic=257148>

Question 792

Examining your flight plans for a trip from Atlanta, Georgia, to Seattle, Washington, and back, you notice that the total time in the air for the flight to Seattle is much longer than the flight back to Atlanta. Then it occurs to you that this is probably because of the impact of

- A) the jet stream.
- B) several weather fronts along the way.
- C) the mixing of the troposphere and stratosphere.
- D) changes in time zones as you fly between the east and the west.

Answer: <https://biology-forums.com/index.php?topic=256579>

Question 793

Farmers who regularly experience pests that cause catastrophic damage once infestation occurs, may benefit from insurance spraying, in which

- A) the insurance company pays for the spraying and in turn does not pay for damaged crops.
- B) just a small percentage of pesticide is released to warn the pests that more is to come.
- C) the crops are sprayed with a pesticide before there is evidence of crop damage.
- D) a chemical treatment for one pest is applied, but no broad-spectrum pesticides are used.

Answer: <https://biology-forums.com/index.php?topic=259111>

Question 794

Asthma is a serious and widespread disease related to air pollution. Symptoms of asthma include impaired breathing resulting from constricted air passages, a disorder of the

- A) digestive system.
- B) cardiovascular system.
- C) endocrine system.
- D) immune system.

Answer: <https://biology-forums.com/index.php?topic=256814>

Question 795

Which one of the following is the broadest scope of ecological study?

- A) ecosystem ecology
- B) landscape ecology
- C) population ecology
- D) community ecology

Answer: <https://biology-forums.com/index.php?topic=258137>

Question 796

About 99% of all liquid fresh water on Earth is found in

- A) lakes, including the Great Lakes of North America.
- B) rivers such as the Amazon, Nile, and Mississippi watersheds.
- C) underground aquifers.
- D) the upper few meters of topsoil.

Answer: <https://biology-forums.com/index.php?topic=258805>

Question 797

Which of the factors just described are characteristic of urban sprawl?

- A) abundant shopping malls
- B) unclear boundaries between towns
- C) dense, congested traffic
- D) abundant shopping malls, unclear boundaries between towns, and dense, congested traffic

Answer: <https://biology-forums.com/index.php?topic=257411>

Question 798

The evolution of a new species is most like

- A) designing a new home and building it.
- B) remodeling an old home into a new one.
- C) using parts of many junked cars to construct a new one.
- D) creating a virtual car on a computer.

Answer: <https://biology-forums.com/index.php?topic=258299>

Question 799

Most coral reefs are located in shallow water that is no more than 75 meters deep because below this depth,

- A) water temperatures are too cold.
- B) water currents are too fast.
- C) sunlight levels are too low.
- D) there is not enough oxygen.

Answer: <https://biology-forums.com/index.php?topic=258582>

Question 800

Carbon-12 and carbon-14 are isotopes of carbon. These isotopes differ in the number of

- A) protons.
- B) neutrons.
- C) electrons.
- D) protons, neutrons, or electrons.

Answer: <https://biology-forums.com/index.php?topic=259238>

Question 801

It is clear that for Haitian aid and remittances,

- A) remittances and aid have been growing at the same rate.
- B) Haitians receive more support from remittance than from other nations.
- C) the gap between aid and remittances has been growing.
- D) Haiti has undergone demographic transition.

Answer: <https://biology-forums.com/index.php?topic=258738>

Question 802

In central Iowa, which one of the following would yield the highest UV exposure on a sunny day, with a sky clear of all clouds and apparent pollution?

Thirty minutes of direct exposure to the sun

- A) at 1:00 PM on June 30.
- B) at 3:00 PM on September 30.
- C) at 9:00 AM on December 1.
- D) at 2:00 PM on March 30.

Answer: <https://biology-forums.com/index.php?topic=256877>

Question 803

The thermohaline currents of the oceans

- A) are major contributors to global climate change.
- B) carry nutrients upward and also transport heat that warms Europe and North America.
- C) are growing stronger and warmer.
- D) are warmest in the deepest parts of the ocean.

Answer: <https://biology-forums.com/index.php?topic=258818>

Question 804

Burning fossil fuels, cutting down large forests, and not replanting the areas with trees will

- A) increase atmospheric concentrations of carbon dioxide.
- B) decrease atmospheric concentrations of carbon dioxide.
- C) increase the geological production of fossil fuels.
- D) increase levels of nitrification and reduce acid rain.

Answer: <https://biology-forums.com/index.php?topic=258228>

Question 805

Which one of the following would provide the greatest energy benefit to a home in the United States with cold winters and hot summers? A homeowner has large glass windows facing south. In front of these windows the homeowner should plant

- A) nothing
- B) tall oak trees.
- C) bushes that only grow up to the bottom of the windows.
- D) a flower bed below the windows, but no trees.

Answer: <https://biology-forums.com/index.php?topic=259329>

Question 806

Winds we experience in our daily lives are mainly the result of

- A) the rotation of the Earth.
- B) changes in the direction of ocean currents and tides.
- C) jet streams produced by Hadley cells.
- D) the movement of air between lower pressure and higher pressure regions.

Answer: <https://biology-forums.com/index.php?topic=256575>

Question 807

Acronyms such as NIMBY, BANANA, NIMTOO, and LULU summarize the

- A) types of materials that are buried within landfills.
- B) many pollution problems that result from landfills.
- C) perceptions of people regarding where to build landfills.
- D) many forms of recycling programs that can reduce MSW.

Answer: <https://biology-forums.com/index.php?topic=257102>

Question 808

Most of the public health impacts from air pollution are the result of

- A) acute exposure to a single pollutant.
- B) acute exposure to many pollutants.
- C) chronic exposure to a single pollutant.
- D) chronic exposure to many pollutants.

Answer: <https://biology-forums.com/index.php?topic=256804>

Question 809

In the past, most Western ethics concerning our relationship to the natural environment have been based upon

- A) the utility of the environment to humans.
- B) conserving natural ecosystems without alteration.
- C) the aesthetic value of natural systems.
- D) reverence and respect for the spiritual aspects of the natural world.

Answer: <https://biology-forums.com/index.php?topic=258050>

Question 810

Over the past 60 years, as people moved from U.S. cities to suburbs, the people that were left behind in the cities were primarily

- A) older, poor people representing ethnic minorities.
- B) younger, wealthy people representing ethnic minorities.
- C) older and wealthy Caucasians.
- D) younger Caucasians.

Answer: <https://biology-forums.com/index.php?topic=257442>

Question 811

Studying environmental biology has got you thinking about what you do with your kitchen wastes, the discarded egg shells, orange and banana peels, coffee grounds, etc. Living at the edge of town, you have several options. Which of the following would be the least efficient (or slowest) way to allow natural decay of your kitchen wastes?

- A) collecting your kitchen garbage in small plastic bags and disposing of it in a large city landfill
- B) collecting your kitchen garbage in paper bags and disposing of it in a large city landfill
- C) spreading your kitchen wastes on the top of a garden
- D) burying your kitchen wastes deep in your garden soil

Answer: <https://biology-forums.com/index.php?topic=259403>

Question 812

Using the IPAT or ImpACT formula, which of the following would most likely reduce the environmental impact of a society?

- A) construction of industrial plants by wealthy nations to draw on cheaper labor
- B) the discovery of large reserves of fossil fuels within a nation's borders
- C) increased use of electricity and natural gas by most members of a society
- D) greater use of birth control by most members of a society

Answer: <https://biology-forums.com/index.php?topic=258648>

Question 813

The removal of existing dams is motivated by

- A) the need for more urban drinking water.
- B) the need for more irrigation water.
- C) restoration of scenic beauty of rivers and fisheries.
- D) the need for more hydroelectric power stations.

Answer: <https://biology-forums.com/index.php?topic=258821>

Question 814

New REACH Regulations approved by the European Union change the way chemical safety is determined. Unlike the United States approach, the

Reach Regulations require that the safety of these potentially hazardous chemicals is the obligation of

- A) the industry that produces the chemicals and not the federal government.
- B) the consumer and not the federal government.
- C) the federal government and not the industry.
- D) cities and states and not the industry.

Answer: <https://biology-forums.com/index.php?topic=257345>

Question 815

The most sustainable worldwide expansion of aquaculture is the production of

- A) herbivorous species in the open-ocean.
- B) carnivorous species in mangrove swamps.
- C) herbivorous species in estuarine waters.
- D) carnivorous species in lakes and rivers.

Answer: <https://biology-forums.com/index.php?topic=258572>

Question 816

Much of the recent increased interest in nuclear power is related to

- A) the limited supply of coal to generate electricity.
- B) the limited supply of natural gas to generate electricity.
- C) increasing costs of oil and gasoline.
- D) concerns about global climate change.

Answer: <https://biology-forums.com/index.php?topic=259299>

Question 817

Which of the following is the best predictor of underweight of people of in a particular country?

- A) the amount of annual precipitation
- B) the wealth or poverty of the country
- C) the country's distance from the equator
- D) the reliance on coal for heat and electricity generation

Answer: <https://biology-forums.com/index.php?topic=256463>

Question 818

The most productive systems on land are

- A) natural prairies.
- B) grasslands.
- C) forests.
- D) tundra.

Answer: <https://biology-forums.com/index.php?topic=258553>

Question 819

The IPAT or ImPACT formula may be one way to estimate the

- A) carrying capacity of a society.
- B) point in which a society undergoes the demographic transition.
- C) point in which a society reaches its replacement-level fertility rate.
- D) environmental footprint of a society.

Answer: <https://biology-forums.com/index.php?topic=258652>

Question 820

Based upon the information presented in this figure, which of the following revolutions did not contribute to a sharp increase in human population?

- A) Industrial Revolution
- B) Medical Revolution
- C) Green Revolution
- D) Neolithic Revolution

Answer: <https://biology-forums.com/index.php?topic=258626>

Question 821

For more than 60 years, the city of Milwaukee, Wisconsin, has been selling its processed and sterile sludge as Milorganite® using the process of

- A) pasteurization.
- B) composting.
- C) centrifugation.
- D) anaerobic digestion.

Answer: <https://biology-forums.com/index.php?topic=256990>

Question 822

The best way to reduce the pollution of agricultural fertilizer runoff from farm fields is to

- A) treat the water before it reaches streams or rivers.
- B) reduce the amount fertilizer leaving the farm fields through such techniques as no-till cultivation.
- C) add chemicals into the rivers and streams that neutralize the fertilizers.
- D) raise crops in the rivers and streams that use the fertilizers.

Answer: <https://biology-forums.com/index.php?topic=256919>

Question 823

In January 2010, three California Condors died when they accidentally ate lead ammunition used to kill the animals they were consuming. The California Condors' deaths represent an example of

- A) acute toxic effects of consuming high levels of lead.
- B) chronic toxic effects of lead resulting from biomagnification.
- C) chronic toxic effects of lead resulting from bioaccumulation.
- D) chronic toxic effects of lead resulting from biomagnification and bioaccumulation.

Answer: <https://biology-forums.com/index.php?topic=257268>

Question 824

The SARE; and WHIP, EQIP and CSP programs

- A) mandate soil conservation programs in all U.S.-subsidized agriculture.
- B) promote research in sustainable agriculture (SARE) or land and wildlife conservation on agricultural lands.
- C) are U.N. FAO programs aimed at sustainable agriculture in South America and Africa.
- D) are NGOs that work with Central American steepplands farmers to improve soil fertility.

Answer: <https://biology-forums.com/index.php?topic=258949>

Question 825

If oil demands continue, the United States will likely increase its importation of oil from

- A) OPEC and the Middle East.
- B) China.
- C) Russia.
- D) the Western Hemisphere.

Answer: <https://biology-forums.com/index.php?topic=259188>

Question 826

Solar trough technology converts

- A) the ultraviolet light in sunlight directly into electricity.
- B) the heat of the sun into steam to drive a turbogenerator.
- C) sunlight into electricity which then produces steam heat.
- D) the direct current generated by photovoltaic cells into alternating current.

Answer: <https://biology-forums.com/index.php?topic=259338>

Question 827

This figure reveals a drop in growth rate that occurs about 20 years before the number of persons added per year declined. This 20-year lag represents:

- A) new immigration policies that became law.

- B) a drop in the number of people reaching reproductive age.
- C) increased use of family planning techniques.
- D) social pressures to reduce family size.

Answer: <https://biology-forums.com/index.php?topic=258664>

Question 828

Examine this figure. Which revolution was most responsible for the shift from phase I to phase II?

- A) Industrial Revolution
- B) Green Revolution
- C) Neolithic Revolution
- D) Medical Revolution

Answer: <https://biology-forums.com/index.php?topic=258686>

Question 829

Additional increases in ocean levels beyond those already expected may be most affected by

- A) increased evaporation of the oceans.
- B) greater than expected melting of polar ice.
- C) greater than expected melting of ice sheets on Greenland and Antarctica.
- D) the formation of additional glaciers in regions where temperatures will decline.

Answer: <https://biology-forums.com/index.php?topic=256670>

Question 830

More oil can be expected from a P50 of a 100 million barrel field than from an oil field with a

- A) P70 for a 100 million barrel field.
- B) P95 for a 90 million barrel field.
- C) P40 for a 200 million barrel field.
- D) P10 for a 150 million barrel field.

Answer: <https://biology-forums.com/index.php?topic=259167>

Question 831

The common denominators of livable cities include

- A) low population density, concentrated housing, few stores and businesses, wide highways, and abundant parking.
- B) low population density, heterogeneous mixtures of residences and businesses, wide highways, and abundant parking for efficient transportation.
- C) high population density, concentrated housing, limited business and stores, and a car-centered approach that makes driving easy.
- D) high population density but heterogeneous mixtures of residences and businesses that encourage people to socially interact.

Answer: <https://biology-forums.com/index.php?topic=257464>

Question 832

Nuclear power plants are especially expensive because they

- A) require the highest levels of security.
- B) usually cost as much to decommission as they did to build.
- C) have so many parts that must be coated in gold.
- D) are constructed of many thick layers of concrete.

Answer: <https://biology-forums.com/index.php?topic=259286>

Question 833

The objective of biological nutrient removal is to

- A) reduce cultural eutrophication.
- B) increase the BOD of the wastewater discharge into freshwater systems.
- C) eliminate living bacteria in the wastewater discharge.
- D) reduce the amount of grit and debris in wastewater.

Answer: <https://biology-forums.com/index.php?topic=256976>

Question 834

Which of the following is true about U.S. pollution levels?

- A) the release of toxic chemicals has increased by 19%.
- B) the average levels of lead in the blood of children have declined by 80%.
- C) acid deposition has increased by 27%.
- D) total emissions of five principal air pollutants have increased by 14%.

Answer: <https://biology-forums.com/index.php?topic=258128>

Question 835

Harmful algal blooms appear to be linked to unusually high levels of nutrient pollution. Which of the following is the most likely source of nutrient pollution in a river drainage system associated with an algal bloom?

- A) a coal-fired power plant
- B) a nuclear power plant
- C) chicken and hog farms
- D) a large shopping mall

Answer: <https://biology-forums.com/index.php?topic=257020>

Question 836

Which one of the following illustrates a consumptive use of biomass energy of a forest?

- A) Indigenous peoples harvest tagua nuts from trees in a rain forest, carve them into animal sculptures, and sell them in the local market to tourists.
- B) Hiking through a forest in the Appalachian mountains, some college students gather dead branches from the ground to make a fire to cook dinner.
- C) Native people living in a Brazilian rain forest earn money by collecting exotic fruits and nuts and selling them in the local city markets.
- D) In downstate Illinois, a farmer cuts up dead standing trees from a forest on his property and delivers the firewood to people living in the suburbs of St. Louis.

Answer: <https://biology-forums.com/index.php?topic=259359>

Question 837

If you see this symbol on a package of food, you know that the product

- A) contains no GM or irradiated ingredients.
- B) may have been fertilized with sewage sludge.
- C) is at least 51 % organic.
- D) is 100% organic.

Answer: <https://biology-forums.com/index.php?topic=259127>

Question 838

According to EPA requirements for new landfills, leachate from the landfill must be

- A) collected by a system that intercepts percolation and treats it as necessary.
- B) collected into pools at the edge of the landfill where it can evaporate.
- C) absorbed by materials such as paper products added as the landfill is formed.
- D) contained within the landfill using a system of plastic liners that prevent its escape.

Answer: <https://biology-forums.com/index.php?topic=257096>

Question 839

Care and proper management of the world's biomes are necessary to maintain sustainability. However, some ecosystems are in better condition than others. Which one of the following regions appears to be healthiest and best managed today?

- A) tropical forests in South America
- B) forests in the United States
- C) coral reefs throughout the world
- D) coastal regions in the North Sea

Answer: <https://biology-forums.com/index.php?topic=258597>

Question 840

Unlike photochemical smog, the atmospheric brown cloud over much of south and central Asia

- A) occurs only during the daytime, when the sun is shining brightest.
- B) occurs year-round and includes black carbon and soot.
- C) occurs only in coastal regions, where salt aerosols are most abundant.
- D) results from the gases released from abundant rice fields and farm animals.

Answer: <https://biology-forums.com/index.php?topic=256767>

Question 841

The ecological economic paradigm argues that the environment encompasses the economy because the environment is essential to provide

- A) the energy necessary to run our homes and factories.
- B) solar energy needed for plants and to light our environment during the day.
- C) transportation along highways, railways, rivers, and oceans.
- D) vital raw materials and ecosystem services and absorb wastes.

Answer: <https://biology-forums.com/index.php?topic=258075>

Question 842

Lining a landfill with a thick tough plastic barrier is a good way to address problems related to

- A) methane production.
- B) settling.
- C) incomplete decomposition.
- D) groundwater contamination.

Answer: <https://biology-forums.com/index.php?topic=257076>

Question 843

The natural succession of a small farm pond will tend to

- A) increase the total amount of shoreline.
- B) increase the depth of the pond.
- C) increase the amount of water in the pond.
- D) increase sediment depth and make the pond more likely to freeze solid in the winter.

Answer: <https://biology-forums.com/index.php?topic=258369>

Question 844

The technology in this photograph is used to capture the renewable energy of

- A) nuclear fuel.
- B) the sun.
- C) the wind.
- D) precipitation.

Answer: <https://biology-forums.com/index.php?topic=259309>

Question 845

Because of a growing population of people and increased interests in fishing, a lake in Florida is experiencing increased harvests of the bass population. To better manage the bass population, ensure sustainability, and continue to draw tourists to this popular lake, the state government determines that all fishing in the lake should be stopped for 5 years. Using lessons from the study of the Santa Cruz River in Arizona, the approach to this Florida lake problem would be better if the

- A) local people were involved in determining how best to manage the fishing in this lake.
- B) federal government banned fishing every other year for the next 20 years.
- C) decisions about the management of this ecosystem were left up to the tourist industry.
- D) population of fish was instead managed to keep the bass population near carrying capacity.

Answer: <https://biology-forums.com/index.php?topic=258549>

Question 846

In this wooded region that was once pasture, a mature forest of towering oaks and hickory trees has taken over. However, change is still apparent, as a large patch of young shrubs and small trees are growing where several large trees were toppled by a storm several years ago. Collectively, this wooded region represents

- A) a climax ecosystem.
- B) primary succession.
- C) a sustained biome.
- D) intermediate succession.

Answer: <https://biology-forums.com/index.php?topic=258366>

Question 847

Bt crops

- A) are GM plants that incorporate the gene for producing a potent bacterially produced insecticide.
- B) produce chemicals that interfere with the molting of insect pests.
- C) should always be planted in pure stands to reduce the chance of Bt resistant pests.
- D) produce chemicals that are similar to insect pheromones, interrupting pest mating cycles.

Answer: <https://biology-forums.com/index.php?topic=259108>

Question 848

The application of the precautionary principle to a commercial fishery whose primary catch species is in decline would result in

- A) many years in which no fish are harvested at all.
- B) an optimal population size that is just about the maximum sustainable yield.
- C) a total allowable catch above the best estimate of the maximum sustainable yield.
- D) a total allowable catch below the best estimate of the maximum sustainable yield.

Answer: <https://biology-forums.com/index.php?topic=258540>

Question 849

The window of opportunity presented by the demographic dividend generally ends as

- A) people start having larger families.
- B) people live longer.
- C) economic pressures require more people to work.
- D) rural populations increase.

Answer: <https://biology-forums.com/index.php?topic=258706>

Question 850

The main lesson learned from the experiences of Gabino Lopez farming steep lands in Guatemala is that

- A) the application of modern agricultural techniques can greatly increase crop production and sustainability.
- B) modern agricultural equipment permitting deep plowing can greatly increase crop production and sustainability.
- C) the widespread use of pesticides and herbicides can greatly increase crop production and sustainability.
- D) many crops traditionally raised by native people depend too much on the application of pesticides.

Answer: <https://biology-forums.com/index.php?topic=258872>

Question 851

On Earth today, mountains such as the Himalayas are rising because of

- A) extensive erosion caused by increases in rainfall in those regions.
- B) subterranean pockets of natural gas forcing their way to the surface.
- C) low density rocks that are being forced upward through high density rocks.
- D) collisions between tectonic plates.

Answer: <https://biology-forums.com/index.php?topic=258301>

Question 852

Recent studies indicate that two of the most dangerous components of air pollution in and around major cities in the United States are

- A) fine particles and sulfur pollution.
- B) carbon monoxide and ozone.
- C) lead and volatile organic compounds.
- D) radon and carbon monoxide.

Answer: <https://biology-forums.com/index.php?topic=256815>

Question 853

In which of the following agricultural situations are fertilizers least needed?

- A) A pumpkin patch is harvested only in the fall, and the vines remain behind.
- B) 1,000 acres of corn are raised and harvested for export from a midwestern farm.
- C) A natural prairie pasture where cattle feed and defecate.
- D) A field where a farmer applies cow manure after harvesting hay.

Answer: <https://biology-forums.com/index.php?topic=258893>

Question 854

The best way to avoid the evolution of pesticide resistance is to

- A) use more of the pesticide anytime resistance appears.
- B) use crop rotation and biological controls instead of pesticides.
- C) develop new forms of pesticides.
- D) apply pesticides to the soil before planting and after harvesting a crop.

Answer: <https://biology-forums.com/index.php?topic=259058>

Question 855

Which of the following most illustrates environmental stewardship?

- A) paving a parking lot with blacktop outside of a dorm
- B) using non-biodegradable pesticides on your garden
- C) using only antibacterial soaps for washing dishes
- D) riding your bike to work instead of driving

Answer: <https://biology-forums.com/index.php?topic=258655>

Question 856

In a greenhouse, it would be best to position a plant so that its exposure to sunlight would be

- A) within its limits of tolerance.
- B) within its optimal range.
- C) at its zones of stress.
- D) at the photosynthetic limit.

Answer: <https://biology-forums.com/index.php?topic=258161>

Question 857

Every scientific observation and test has demonstrated that

- A) supernatural explanations should be included in our explanations.
- B) if theories are repeatedly tested, they can become hypotheses.
- C) the universe functions according to certain basic principles and laws.
- D) every scientific investigation requires the inclusion of proper control groups.

Answer: <https://biology-forums.com/index.php?topic=258027>

Question 858

Instead of addressing the symptoms of cultural eutrophication, the neighborhood association could address the cause of the problem by

- A) treating the pond with copper sulfate.
- B) aerating the pond with underwater pipes.
- C) reducing the use of lawn fertilizers.
- D) draining the pond every few years.

Answer: <https://biology-forums.com/index.php?topic=257025>

Question 859

Pesticide resistance against one pesticide

- A) is permanently restricted to that one kind of pesticide.
- B) can become resistance to many if many are used.
- C) can provide protection against herbivores.
- D) often harms insects by decreasing their ability to reproduce.

Answer: <https://biology-forums.com/index.php?topic=259061>

Question 860

High crime rates in U.S. cities are generally the result of

- A) high population densities.
- B) higher levels of education.
- C) poor social conditions and poverty.
- D) the lack of public transportation.

Answer: <https://biology-forums.com/index.php?topic=257460>

Question 861

Although the use of wastewater effluents for irrigation can be very beneficial, it is essential that the effluents are

- A) treated and free of pathogens.
- B) mixed in with large amounts of phosphorus.
- C) mixed in with large amounts of calcium carbonate.
- D) not used in regions contacted by humans.

Answer: <https://biology-forums.com/index.php?topic=257000>

Question 862

Which of the following represents an alarming positive feedback loop of global warming?

- A) Increasing temperatures raise humidity, which further increases temperatures.
- B) Decreased pH of the ocean increases the rate at which carbon dioxide is absorbed by the oceans from the atmosphere.
- C) Increased use of fossil fuels adds ozone to the stratosphere, which traps more heat.
- D) Increased levels of atmospheric carbon dioxide decreases photosynthesis, which further increases carbon dioxide atmospheric levels.

Answer: <https://biology-forums.com/index.php?topic=256654>

Question 863

The GINI index assesses

- A) the relative size of national ecological and carbon footprints.
- B) the attitudes of stewardship in various nations.
- C) the rate at which technology is affecting consumption patterns within a nation.

D) the relative economic disparity within nations.

Answer: <https://biology-forums.com/index.php?topic=258653>

Question 864

The deterioration of this stone sculpture reflects the damaging effects of

- A) ultraviolet light.
- B) carbon monoxide.
- C) acid precipitation.
- D) volatile organic compounds.

Answer: <https://biology-forums.com/index.php?topic=256825>

Question 865

The Thailand shrimp farm in this photo was built in a mangrove wetland. Overall, the ecosystem capital in this particular region has

- A) increased because of the investment in this shrimp industry.
- B) increased because the shrimp farm decreases the need to harvest wild populations of shrimp.
- C) decreased because the value of the shrimp farm is less than 10% of the value of services provided by the intact mangrove wetland.
- D) decreased because on average, the shrimp farm only provides more valuable services than the original wetland for 50 years.

Answer: <https://biology-forums.com/index.php?topic=258524>

Question 866

When a country such as the United States exports subsidized grains, it hurts a developing country importing the grain by

- A) decreasing production of the grain in the developing country.
- B) increasing domestic production of grains in the developing country.
- C) increasing the demand for meat in the developing country.
- D) causing more people to turn to subsistence farming in the developing country.

Answer: <https://biology-forums.com/index.php?topic=259013>

Question 867

The fecal coliform test is used to determine if the water being tested could transmit

- A) malaria.
- B) dysentery and cholera.
- C) has high levels of heavy metal in the water being tested.
- D) has high levels of H1N1 virus.

Answer: <https://biology-forums.com/index.php?topic=256937>

Question 868

Up until about 12,000 years ago, human populations were primarily limited by

- A) widespread disease.
- B) the availability of food.
- C) limits of transportation.
- D) widespread warfare.

Answer: <https://biology-forums.com/index.php?topic=258954>

Question 869

Which of the following is the greatest current threat to forests in the United States?

- A) earthquakes
- B) erosion
- C) fires
- D) logging

Answer: <https://biology-forums.com/index.php?topic=258600>

Question 870

As you paddle along in your canoe, you pass alligators, herons, turtles, and tall marsh grasses on your journey through Everglades National Park. This magnificent ecosystem is one of the most famous examples of

- A) the saline portion of an estuary.
- B) a lake with some incoming tidal flow.
- C) a freshwater wetland.
- D) a freshwater stream.

Answer: <https://biology-forums.com/index.php?topic=258360>

Question 871

In the classical view of economic activity in this figure, we expect businesses to prosper when

- A) labor costs are low and household incomes rise.
- B) demand for goods and services decline.
- C) labor is in short supply and consumption is declining.
- D) the value of land and resources increase.

Answer: <https://biology-forums.com/index.php?topic=258063>

Question 872

The river dolphin hotspots being protected in Bangladesh are areas that

- A) will protect dolphins from hunters.
- B) will provide food resources and breeding sites.
- C) no longer support river dolphin populations.
- D) are designed to allow heavy human fishing activities, as well as being dolphin refuges.

Answer: <https://biology-forums.com/index.php?topic=258400>

Question 873

The Inuit people are at greatest risk to the biomagnification of persistent organic pollutants because in their ecosystems the Inuit people are functioning as

- A) primary producers.
- B) primary consumers.
- C) secondary consumers.
- D) decomposers and detritus feeders.

Answer: <https://biology-forums.com/index.php?topic=257205>

Question 874

Without human intervention to save a species from extinction, which one of the following organisms would be most likely to survive threats to its extinction?

- A) a flower species that produces three seeds a year and lives for up to 4 years
- B) a mushroom species that releases millions of airborne spores and dies
- C) an elephant species that provides parental care for 1 or 2 offspring for more than a year
- D) a frog that lays 50-100 eggs every year for 2-3 years

Answer: <https://biology-forums.com/index.php?topic=258290>

Question 875

Because of their specific effects exerted by mimicking hormone chemical structure and function, hazardous chemicals that are endocrine disruptors will cause abnormal events in

- A) the musculoskeletal system.
- B) digestion and absorption of foods.
- C) growth, metabolism and reproduction.
- D) vision, hearing and taste.

Answer: <https://biology-forums.com/index.php?topic=257213>

Question 876

Which of the following should not be flushed down the drain in a home with a septic tank?

- A) human toilet wastes
- B) vegetable fragments, organic detergents
- C) toilet paper and other paper fragments
- D) large amounts of bleach, feminine hygiene products, diapers, grease, and condoms

Answer: <https://biology-forums.com/index.php?topic=256995>

Question 877

The World Trade Organization

- A) mainly regulates the use of global environmental resources.
- B) guards human rights and the environmental resources of the world.
- C) is widely recognized as the leader of global trade regulation.
- D) has steadily lost the power to regulate international trade.

Answer: <https://biology-forums.com/index.php?topic=258068>

Question 878

In 2007, heavy rains accompanied an outbreak of cholera in children living in war-torn Iraq. What was the likely cause of the spread of this disease?

- A) pollution of waterways by raw sewage
- B) outbreaks of mosquitoes
- C) lack of protection from the rain caused the children to be very cold
- D) high levels of petroleum products in drinking water

Answer: <https://biology-forums.com/index.php?topic=256935>

Question 879

If organisms are unable to generate enough genetic diversity to survive in a changing environment, they

- A) may produce more offspring.
- B) sometimes go extinct.
- C) may evolve by non-genetic mechanisms.
- D) will start to reproduce asexually.

Answer: <https://biology-forums.com/index.php?topic=258294>

Question 880

A new food preservative has been discovered and the company that makes it needs to determine if it poses any health risk. Experiments are planned to test the effects of the new preservative on mice. These experiments represent a type of

- A) respiratory assessment.
- B) chemical identification.
- C) hazard assessment.
- D) risk characterization.

Answer: <https://biology-forums.com/index.php?topic=256531>

Question 881

Today the best approach to fighting malaria in developing countries primarily relies on the

- A) widespread application of DDT.
- B) use of mosquito nets and DDT.
- C) use of mosquito nets but not DDT.
- D) antimalarial drugs.

Answer: <https://biology-forums.com/index.php?topic=259090>

Question 882

Which of the following demonstrates the best application of justice and good stewardship?

- A) Only countries with water shortages should develop policies of water management.
- B) Restrictions on the use of fossil fuels should be proportional to the carbon footprint.
- C) Wealthy countries have no obligation to provide fuel and food to developing countries.
- D) Countries that mine coal in other countries should be exempt from the environmental damage they cause as long as they provide coal to the nation where it is mined.

Answer: <https://biology-forums.com/index.php?topic=258689>

Question 883

Solar collecting panels would be most effective if they were positioned

- A) nearest the equator.
- B) at mid-latitudes on Earth, about the level of Ohio.
- C) at higher-latitudes on Earth, about the level of Montreal, Canada.
- D) near the poles of the Earth.

Answer: <https://biology-forums.com/index.php?topic=259317>

Question 884

These three sectors account for 50% of all jobs worldwide.

- A) agriculture, forestry and fishing
- B) coal, petroleum and natural gas
- C) entertainment, agriculture and construction
- D) computer science, health care and construction

Answer: <https://biology-forums.com/index.php?topic=256437>

Question 885

One of the most influential forces encouraging the passage of laws regulating the safety and use of toxic chemicals has been

- A) international organizations.
- B) consumer advocacy groups.
- C) social clubs such as the Rotary and Lions groups.
- D) international laws.

Answer: <https://biology-forums.com/index.php?topic=257348>

Question 886

Lakes severely impacted by acidification will most likely

- A) be clear and blue, but with few fish or other animals.
- B) be dark, muddy, and full of crustaceans and the larvae of insects.
- C) have abundant surface vegetation and many insects but few fish.
- D) be reddish in color due to the dissolved iron from nearby soils.

Answer: <https://biology-forums.com/index.php?topic=256832>

Question 887

Most plants acquire their minerals from

- A) the recycling of nutrients from detritus.
- B) the precipitation of minerals from rainfall.
- C) the weathering of rock.
- D) dust storms that transport minerals into a region.

Answer: <https://biology-forums.com/index.php?topic=258888>

Question 888

Since the 1960s in the United States, public policies and high taxes on cigarettes to discourage smoking have

- A) increased, and the number of adult smokers has been cut in half.
- B) increased, but the number of adult smokers has stayed about the same.
- C) increased, but the number of adult smokers has increased by about 50%.
- D) decreased, and the number of adult smokers has dropped by about 20%.

Answer: <https://biology-forums.com/index.php?topic=256480>

Question 889

Most of the weather of the world is based upon changes in the moisture, pressure, and/or temperature of the

- A) mesosphere.
- B) thermosphere.
- C) stratosphere.
- D) troposphere.

Answer: <https://biology-forums.com/index.php?topic=256560>

Question 890

Global satellite imagery of land on Earth over the past 20 years reveals

- A) a net improvement of the quality and area of cropland.
- B) a net decline in the overall quality of cropland.
- C) the loss of more than 5% of land to the construction of new lakes and dams for electrical generation.
- D) a loss of more than 7% of land mass due to rising ocean levels.

Answer: <https://biology-forums.com/index.php?topic=258920>

Question 891

Biopesticides

- A) often take 3-5 years to gain approval because of their complex mechanisms of action.
- B) require more training for proper application than more traditional pesticides.
- C) are often so ineffective that they must be replaced by more toxic pesticides.
- D) are naturally occurring biochemicals such as pheromones.

Answer: <https://biology-forums.com/index.php?topic=259119>

Question 892

The carrot peelings you send down a garbage disposal represent which of the following types of wastewater pollutant?

- A) debris and grit
- B) dissolved inorganic material
- C) colloidal and dissolved organic material
- D) particulate organic matter

Answer: <https://biology-forums.com/index.php?topic=256966>

Question 893

WTE combustion facilities like the one illustrated here

- A) extend the life of landfills by decreasing waste volume.
- B) are able to eliminate the disposal of MSW.
- C) increase the volume of MSW that must be buried in landfills.
- D) ultimately increase the use fossil fuels to generate electricity.

Answer: <https://biology-forums.com/index.php?topic=257124>

Question 894

A person who is gaining weight but lacking in some vitamins exhibits

- A) malnutrition.
- B) undernourishment.
- C) malnutrition and undernourishment.
- D) malnutrition and overnourishment.

Answer: <https://biology-forums.com/index.php?topic=259017>

Question 895

Making purchases of used items at a garage sale is one environmentally friendly approach that best represents a form of

- A) source reduction.
- B) composting.
- C) recycling/reuse.
- D) WTE disposal.

Answer: <https://biology-forums.com/index.php?topic=257142>

Question 896

The cleanup of hazardous waste accumulated in orphan sites is complicated because

- A) most of the waste is buried below the water table.
- B) there is no responsible party to clean up the waste.
- C) the chemicals have evaporated before they could be removed.
- D) there are no longer places available to dispose of hazardous wastes.

Answer: <https://biology-forums.com/index.php?topic=257287>

Question 897

Unlike large solar collection fields and dams, wind farms

- A) keep the surrounding land available for farming.
- B) can continue to generate electricity every hour of the day.
- C) do not generate greenhouse gases.
- D) are very inexpensive to build.

Answer: <https://biology-forums.com/index.php?topic=259353>

Question 898

Fission and fusion reactions

- A) convert a tiny amount of the mass of the nuclear materials to energy.
- B) convert energy to the mass of the nuclear materials.
- C) release energy without a change in the mass of the nuclear materials.
- D) invest energy to generate nuclear materials.

Answer: <https://biology-forums.com/index.php?topic=259236>

Question 899

Unlike naturally occurring sources of acid precipitation, anthropogenic sources of acid precipitation

- A) are more concentrated in industrial and agricultural areas.
- B) result in the extended release of radon gas.
- C) include sulfur oxides and nitrogen oxides.
- D) occur at higher levels of pH.

Answer: <https://biology-forums.com/index.php?topic=256798>

Question 900

Lake Springfield in the city of Springfield, Illinois, is a busy place where people swim and fish. The lake also supplies drinking water for Springfield residents and cooling water to a nearby coal-fired power plant. Beautiful homes surround most of the lake. Over the past 15 years, the bacterium *Leptospira*, commonly found in agricultural animal waste, has been detected in this lake water, and some people have become sick. The contamination of the lake by *Leptospira* may best be prevented by

- A) better control of agricultural nonpoint source pollution of the lake.
- B) doubling the amount of fluoride added to the city's public water supply.
- C) restricting swimming in the lake to only weekends.
- D) requiring the power company to find another source for its cooling water.

Answer: <https://biology-forums.com/index.php?topic=256928>

Question 901

This photograph best represents the results of which three revolutions?

- A) Environmental Revolution, Medical Revolution, and Industrial Revolution
- B) Industrial Revolution, Military Revolution, and Neolithic Revolution
- C) Medical Revolution, Social Revolution, and Green Revolution
- D) Neolithic Revolution, Industrial Revolution, and Green Revolution

Answer: <https://biology-forums.com/index.php?topic=258639>

Question 902

What two spheres are most visible in this photograph?

- A) atmosphere and lithosphere.
- B) hydrosphere and biosphere.
- C) lithosphere and hydrosphere.
- D) biosphere and atmosphere.

Answer: <https://biology-forums.com/index.php?topic=258179>

Question 903

The current global human population in 2012 is more than

- A) 10 billion and is increasing at an annual rate of 5%.
- B) 2.2 billion and is no longer growing.
- C) 7.1 billion and is growing at a rate of 1.2%.
- D) 13 billion and is decreasing at a rate of 3% in developing nations.

Answer: <https://biology-forums.com/index.php?topic=257974>

Question 904

Solar space heating units tend to be less expensive than solar water heating units because

- A) solar heating units can be passive and water heating units must be active.
- B) it takes longer to heat up air than water.
- C) because of its low density, it is usually cheaper to move air than water.
- D) solar space heating units can only be used near the equator.

Answer: <https://biology-forums.com/index.php?topic=259324>

Question 905

Insecticides would be most useful in combating

- A) mosquitoes that spread malaria.
- B) weeds that infect our agricultural fields.
- C) bacteria, such as *Salmonella*, which sometimes contaminate meat.
- D) fungi that contribute to molds and mildew that lead to respiratory infections.

Answer: <https://biology-forums.com/index.php?topic=259045>

Question 906

To meet the energy needs of all humans, we would need to capture

- A) all of the sun's energy striking the Earth.
- B) all of the sun's energy just reaching the outer atmosphere.
- C) only about 1% of the sun's energy striking the Earth.
- D) only about 1/10,000 of the sun's energy striking the Earth.

Answer: <https://biology-forums.com/index.php?topic=259316>

Question 907

Initial testing on mice indicates that a new food coloring is a carcinogen. Now the researchers hope to examine the effects of different concentrations of the carcinogen on mice in a type of

- A) exposure assessment.
- B) dose-response assessment.
- C) hazard assessment.
- D) risk characterization.

Answer: <https://biology-forums.com/index.php?topic=256533>

Question 908

The Atlanta BeltLine project will provide

- A) more parks but not any remediation of brownfield areas.
- B) a rapid completion of all its projects within two years.
- C) a large increase in the city's tax base and thousands of construction jobs.
- D) some new housing units, but coming at the expense of reducing public parks.

Answer: <https://biology-forums.com/index.php?topic=257369>

Question 909

The concept of sustainable development includes

- A) the needs of future generations.
- B) growth in profits from international trade.
- C) the importance of developing the arts.
- D) the fastest ways to economic prosperity.

Answer: <https://biology-forums.com/index.php?topic=258037>

Question 910

Assuming that these people do not use tobacco products, a person in which of the following professions would most likely have the highest exposure to benzene, a known carcinogen?

- A) a truck driver or pharmaceutical company worker
- B) a cashier at a grocery store
- C) an accountant working in a large office building
- D) a psychology professor

Answer: <https://biology-forums.com/index.php?topic=256819>

Question 911

In an ecosystem, the elimination of one new species by another because of direct competition for the same resources is an example of

- A) intraspecific competition.
- B) the competitive exclusion principle.
- C) character displacement.
- D) resource partitioning.

Answer: <https://biology-forums.com/index.php?topic=258276>

Question 912

In the past decade, the United States government has

- A) discouraged the use of alternate energy resources and promoted the use of fossil fuels.
- B) promoted but not invested in the development and use of sustainable energy resources.
- C) promoted and invested heavily through the Recovery Act of 2009 in the development and use of sustainable energy resources.
- D) required the use of sustainable energy resources for more than 95% of our energy demands by the year 2020.

Answer: <https://biology-forums.com/index.php?topic=259391>

Question 913

The well in this landfill in the foreground of the photo is most likely being used to

- A) recycle plastics.
- B) process leachate.
- C) capture methane.
- D) recycle heavy metals.

Answer: <https://biology-forums.com/index.php?topic=257120>

Question 914

Because it does not affect the crop yield or nutritional value, a local grower advertises that in his orchard he does not use

- A) cosmetic spraying.
- B) insurance spraying.
- C) crop rotation.
- D) natural predators.

Answer: <https://biology-forums.com/index.php?topic=259112>

Question 915

Which of the following is not typical of U.S. suburbs?

- A) residential density is as high as the inner city.
- B) there is high physical separation between homes, work, and shopping.
- C) there is congested traffic due to inadequate road networks.
- D) there are unclear city borders.

Answer: <https://biology-forums.com/index.php?topic=257409>

Question 916

The development of agriculture during the Neolithic Revolution made food

- A) less abundant and less reliable.
- B) more expensive and difficult to acquire.
- C) less of a limiting factor on population growth.
- D) less nutritious.

Answer: <https://biology-forums.com/index.php?topic=258616>

Question 917

In general, United States subsidies for farmers and ranchers have

- A) been based on a sustainable use of natural resources.
- B) produced unsustainable soil conservation practices and increased pesticide and fertilizer use.
- C) shown how satellite technology can benefit conservation efforts.
- D) demonstrated the benefit of government investment to support conservation efforts.

Answer: <https://biology-forums.com/index.php?topic=258950>

Question 918

The reauthorization of the Magnuson Act now

- A) requires an ecosystem-based approach to fisheries management.
- B) limits catches of all commercial species to below maximum sustainable yield.
- C) decreases the role of the Scientific and Statistical Committee, shifting data collection to the local fisherman.
- D) encourages the collection of bycatch as a new source of revenue.

Answer: <https://biology-forums.com/index.php?topic=258575>

Question 919

Restoration ecologists try to

- A) restore destroyed or damaged ecosystems to their native conditions.
- B) create new ecosystems with new ecosystem functions to gain ecosystem capital.
- C) create enclosures for zoos that imitate the abiotic components of natural environments.
- D) include ecosystems in national forests and parks where people can best interact with nature.

Answer: <https://biology-forums.com/index.php?topic=258389>

Question 920

Over the past 40 years, interests in energy conservation have

- A) paralleled increases in computer technology.
- B) largely paralleled the price of oil.
- C) decreased as alternate forms of energy have become available.
- D) dwindled as interests in world hunger have risen.

Answer: <https://biology-forums.com/index.php?topic=259180>

Question 921

In 1994, because of concerns about cultural eutrophication, laundry detergent manufacturers voluntarily stopped producing detergents that contained

- A) artificial dyes.
- B) phosphates.
- C) chlorine.
- D) nitrogen

Answer: <https://biology-forums.com/index.php?topic=257028>

Question 922

Crop damage from ozone formation is most likely to occur

- A) downwind of a large urban center in the summer.
- B) upwind of large polluting regions in the spring.
- C) next to busy major highways in the winter
- D) downwind from an ocean shoreline in the spring.

Answer: <https://biology-forums.com/index.php?topic=256821>

Question 923

During a January storm in Vermont, a highway truck crashes and spills 3 tons of rock salt onto the side of the road, covering grasses and tumbling down to a creek. Learning about this accident, you wonder about the environmental consequences. This sort of salt naturally occurs in the soil. According to the U.S. Environmental Protection Agency's definition of pollution, this spill would be considered as a

- A) nontoxic, non-polluting spill of a natural substance.
- B) pollutant that should be cleaned up as much as possible.
- C) nutrient supplement, and no environmental harm is expected.
- D) problem better suited for the CDC.

Answer: <https://biology-forums.com/index.php?topic=259401>

Question 924

If you use curbside recycling or participate in on-campus recycling, the sorted recyclable items will likely be sent to a MRF. At the MRF, the materials will be

- A) recycled into new products.
- B) sorted again and shipped to the recyclable-goods market.
- C) melted down into blocks (glass and plastic) or ground up (paper).
- D) burned, with the residual glass and metals remaining behind for further sorting.

Answer: <https://biology-forums.com/index.php?topic=257177>

Question 925

In this figure, what level of pollution reduction comes at the highest cost?

- A) the first 20% of pollution reduction
- B) from 20-40% pollution reduction
- C) from 60-80% pollution reduction
- D) from 80-100% pollution reduction

Answer: <https://biology-forums.com/index.php?topic=258120>

Question 926

Because of the main way that hybrid vehicles save fuel, hybrid electric vehicles

- A) must be plugged in to power outlets at night or when parked for long periods.
- B) must have their batteries changed about every 50,000 miles.
- C) often have better mileage in cities than on highways.
- D) cannot be produced with four-wheel drive powertrains.

Answer: <https://biology-forums.com/index.php?topic=256860>

Question 927

If fire is suppressed in forests that naturally experience frequent fires,

- A) nutrient recycling improves.
- B) grasses are more abundant.
- C) pines and redwoods are more abundant.
- D) the frequency of crown fires increases when fire does occur.

Answer: <https://biology-forums.com/index.php?topic=258372>

Question 928

If we only recycled half of the materials that could be recycled of the total MSW of the United States, we could reduce the total volume of MSW by about

- A) 5%.
- B) 10%.
- C) 20%
- D) 35%.

Answer: <https://biology-forums.com/index.php?topic=257149>

Question 929

- A cost-benefit analysis of the acid rain prevention programs shows that
- A) there was no net economic benefit.
 - B) there was a large benefit and savings compared to costs.
 - C) there was a large loss because costs far outweighed benefits
 - D) with vastly increased spending, the program could show a net benefit.

Answer: <https://biology-forums.com/index.php?topic=256875>

Question 930

- Which of the following human traits are typical of K-strategists?
- A) ability to outcompete other organisms
 - B) potential for rapid population growth
 - C) ability to relocate and thrive
 - D) parental care of long duration

Answer: <https://biology-forums.com/index.php?topic=258610>

Question 931

- Global warming is raising sea levels because of
- A) melting ice and thermal expansion.
 - B) ocean basins compressed by continental drift.
 - C) greatly increased precipitation.
 - D) increased use of irrigation and drainage of wetlands on land.

Answer: <https://biology-forums.com/index.php?topic=256646>

Question 932

- The industrial revolution has greatly impacted global agriculture such that
- A) the need for fertilizers and herbicides has nearly been eliminated.
 - B) agricultural productivity has more than doubled.
 - C) soil degradation has been nearly eliminated.
 - D) the cost of world agriculture has dropped significantly.

Answer: <https://biology-forums.com/index.php?topic=258958>

Question 933

- The Dust Bowl experience of the United States in the 1930s was caused primarily by
- A) planting grains in soils that could only support leaf crops sustainably.
 - B) lack of any soil conservation practices, continuous cropping, coupled with natural drought.
 - C) lack of enforcement of the soil conservation provisions of the 1862 Homestead Act.
 - D) attempts to farm areas with desertlike climate and thin topsoil.

Answer: <https://biology-forums.com/index.php?topic=258868>

Question 934

- In an ecosystem with many similar species, we typically find
- A) intense interspecific competition mostly for food.
 - B) competitors using different resources to minimize interspecific competition.
 - C) intense interspecific competition mostly for nesting sites.
 - D) adaptations for battles and interspecific competition.

Answer: <https://biology-forums.com/index.php?topic=258275>

Question 935

- The greatest biodiversity would be in an ecosystem with the same number of species as other ecosystems but which has
- A) no dominant species.
 - B) a single dominant species.
 - C) more consumers species than producer species.
 - D) several dominant species in intense competition with each other.

Answer: <https://biology-forums.com/index.php?topic=258427>

Question 936

- Despite a worldwide moratorium on whale hunting by the International Whaling Commission,
- A) Norway, Japan, and Iceland have continued to hunt whales.
 - B) most nations of the world now permit the hunting of whales.
 - C) whale meat is now more popular than ever in Japan and China.
 - D) the impact of whales on commercial wild fish populations requires whale hunting worldwide.

Answer: <https://biology-forums.com/index.php?topic=258580>

Question 937

The many factors listed above that can affect the squirrel population represent

- A) environmental resistance.
- B) the carrying capacity of the squirrel population.
- C) the squirrel's life history.
- D) the biotic potential of the squirrel population.

Answer: <https://biology-forums.com/index.php?topic=258245>

Question 938

The quality of the final treated secondary wastewater effluent from a modern treatment plant is typically

- A) lower in organic and nutrient content than the body of water into which it is discharged.
- B) lower in organic content but higher in nutrient content than the body of water into which it is discharged.
- C) higher in organic and nutrient content than the body of water into which it is discharged.
- D) higher in organic content but lower in nutrient content than the body of water into which it is discharged.

Answer: <https://biology-forums.com/index.php?topic=256984>

Question 939

In general, between 1990 and 2010, the fuel efficiency of vehicles sold in the United States has

- A) increased dramatically, nearly doubling in this 20-year period.
- B) increased by about 50%.
- C) showed only a slight increase.
- D) decreased by about 30% due to additional pollution control devices on exhaust systems.

Answer: <https://biology-forums.com/index.php?topic=256852>

Question 940

The dangers of widespread DDT use are largely due to two main characteristics of DDT, its

- A) bioremediation and nonpersistence.
- B) degradation and nonpersistence.
- C) biomagnification and persistence.
- D) bioremediation and persistence.

Answer: <https://biology-forums.com/index.php?topic=259082>

Question 941

The ecological economic paradigm places the greatest emphasis on the

- A) amount and quality of capital available to industry.
- B) abundance of well-trained, well-educated labor that is available.
- C) essential functions of the natural environment.
- D) public's understanding of the natural environment.

Answer: <https://biology-forums.com/index.php?topic=258076>

Question 942

The high price of food on the global market is closely related to

- A) the increased use of fertilizers and the rising cost of fossil fuels to produce fertilizers.
- B) the increased use of biological control and other sustainable agricultural methods.
- C) the cost to construct and use modern forms of irrigation.
- D) the cost of remediation to restore degraded soils to usable conditions.

Answer: <https://biology-forums.com/index.php?topic=258961>

Question 943

The phrase "ecosystem capital" is better than the phrase "natural resources" because ecosystem capital

- A) includes both the ecological and economic value of natural ecosystems.
- B) includes only the economic value of an ecosystem's goods and services.
- C) includes only the ecological value of natural ecosystems.
- D) includes neither the economic nor the ecological value of an ecosystem's goods and services.

Answer: <https://biology-forums.com/index.php?topic=258520>

Question 944

Farmers often appreciate a long, light rain over main hours after a long drought, instead of a sudden downpour. This is because a long, light rain permits better

- A) infiltration.
- B) water-holding capacity.
- C) transpiration.
- D) soil fertility.

Answer: <https://biology-forums.com/index.php?topic=258900>

Question 945

The goals of biotechnology currently include

- A) producing greater crop yields in plants that can grow without water.
- B) growing crops that are more resistant to drought and disease.
- C) altering plants to increase the production of coal.
- D) creating plants that do not need sunlight to grow.

Answer: <https://biology-forums.com/index.php?topic=258986>

Question 946

The EROI system of evaluating energy exploitation from various sources is based upon

- A) the market price of the energy involved.
- B) the environmental damage likely to be caused by the extraction process.
- C) the ratio of energy extracted to energy invested in the extraction process.
- D) the amount of heat produced by using a unit of the energy in question.

Answer: <https://biology-forums.com/index.php?topic=259193>

Question 947

Meeting the new 2010 higher CAFÉ standards in the United States will result in

- A) fewer coal-burning power plants.
- B) increased reliance upon wind and solar energy.
- C) increased reliance upon natural gas.
- D) better gas mileage and less air pollution.

Answer: <https://biology-forums.com/index.php?topic=256854>

Question 948

Which field was the control group?

- A) the west field
- B) the east field
- C) Both fields were controls for one another.
- D) There were no controls in this experiment.

Answer: <https://biology-forums.com/index.php?topic=258023>

Question 949

Sharon is working in a laboratory that handles hazardous materials and has required OSHA information on the toxic chemicals involved. She uses a chemical hood, transferring a toxic chemical solution from one vial to a beaker for proper disposal. Unexpectedly, a colleague walks by and bumps her arm, causing her to spill the chemical solution onto the floor of the laboratory. Uncertain what to do, after she tells her colleagues to leave the area, she

- A) checks the information on the HAZMAT signs in her workplace.
- B) searches the Internet for medical articles related to these compounds.
- C) asks the supervisors about the dangers of the substances she handles.
- D) reads the relevant material data safety sheets to learn how to safely clean up the spill.

Answer: <https://biology-forums.com/index.php?topic=257338>

Question 950

Most of the increase in fuel efficiency of hybrid vehicles comes from

- A) charging electric batteries when decelerating, idling or coasting.
- B) charging electric batteries when cruising down the highway.
- C) enclosing most of the wheels and other aerodynamic designs.
- D) the use of smaller engines that produce less power and slower acceleration.

Answer: <https://biology-forums.com/index.php?topic=256858>

Question 951

Brown-headed Cowbirds lay their eggs in other birds' nests, relying upon another species to raise their chicks. Although many species continue to raise the cowbird chicks, some species reject the eggs and offspring. Further, Brown-headed Cowbirds are rare inside large forests. Which of the following represents an adaptation in response to this cowbird threat?

- A) breeding birds of other species raising cowbird chicks
- B) breeding birds of other species nesting in deep forests
- C) breeding birds of other species attracting cowbird adults to their region
- D) breeding birds of other species changing to a different type of bird song

Answer: <https://biology-forums.com/index.php?topic=258287>

Question 952

In general, the optimal population for harvesting

- A) the maximum sustainable yield is at about half of the carrying capacity of the population.
- B) the maximum sustainable yield is at about 90% of the carrying capacity of the population.
- C) a plant population is quite different from the optimal population for harvesting animals.
- D) any organism is independent of the carrying capacity of the environment.

Answer: <https://biology-forums.com/index.php?topic=258539>

Question 953

More than 550 landfills in the United States now use biogas to

- A) generate electricity and heat homes.
- B) produce gasoline and oil products.
- C) grow vegetables and other commercially raised plants.
- D) promote the decomposition of the wastes buried in the landfills.

Answer: <https://biology-forums.com/index.php?topic=257080>

Question 954

A promising alternative to toxic pesticides to reduce the billions of dollars damage done by marine biofouling organisms is

- A) marine predatory insects that eat the sessile biofoulers.
- B) polymers that make it difficult for the organisms to attach to a substrate.
- C) attracting fish to fouled sites to eat the fouling organisms.
- D) electrified ship hulls, intake pipes and docks to electrocute the pests.

Answer: <https://biology-forums.com/index.php?topic=259109>

Question 955

Which of the following activities of the federal government most encouraged urban sprawl in the period following WWII?

- A) low interest home loans
- B) increased low interest student loans
- C) federal investment in urban public transportation
- D) the creation of the United States federal welfare program

Answer: <https://biology-forums.com/index.php?topic=257384>

Question 956

A town is considering the uses of its former landfill. Some people want to use it as a park and others want to build office buildings and form an industrial park. Engineers advising the town council have strongly urged the group to not place any significant buildings on top of the landfill because of problems related to

- A) leaching.
- B) settling.
- C) biogas production.
- D) incomplete decomposition.

Answer: <https://biology-forums.com/index.php?topic=257092>

Question 957

- A population that is at equilibrium
- A) is experiencing a slow rate of growth.
 - B) is staying at about the same size.
 - C) is slowly declining because of increases in environmental resistance.
 - D) has most likely just lost a key predator.

Answer: <https://biology-forums.com/index.php?topic=258234>

Question 958

- Regulating and cultural services provided by natural ecosystems
- A) typically have the highest economic value of any components of ecosystems.
 - B) are public goods usually provided by markets.
 - C) include goods such as fresh water, wild foods, and livestock.
 - D) are essential but difficult to value in monetary terms.

Answer: <https://biology-forums.com/index.php?topic=258523>

Question 959

- Agricultural sustainability depends upon an understanding and proper management of the cornerstone of food production,
- A) irrigation systems.
 - B) agricultural soils.
 - C) the generation of new plant hybrids using genetic engineering.
 - D) the agricultural technology necessary to plow, plant, and harvest.

Answer: <https://biology-forums.com/index.php?topic=258867>

Question 960

- Harnessing the energy of tides to generate electricity is different than the force moving the water in a hydroelectric power station at a dam because
- A) tidal energy uses turbines and a dam uses generators.
 - B) tidal energy ultimately relies on moon's gravity and hydroelectric power ultimately relies on the energy from the sun.
 - C) tidal energy ultimately relies on ocean currents and hydroelectric power ultimately relies on the energy from the sun.
 - D) tidal energy ultimately relies on the wind and hydroelectric power ultimately relies on the energy of rain.

Answer: <https://biology-forums.com/index.php?topic=259386>

Question 961

- Golden rice 1 was not a solution to vitamin A deficiency because
- A) the levels of vitamin A in the rice were too low.
 - B) the vitamin A was not a form that can be used by humans.
 - C) this type of rice could not be grown where rice is primarily consumed.
 - D) this type of rice required excessive use of fertilizers.

Answer: <https://biology-forums.com/index.php?topic=258999>

Question 962

- The EPA's new Tox-Cast program
- A) uses enhanced animal testing to screen potentially toxic chemicals.
 - B) uses human cells such as stem cells to rapidly screen potentially toxic chemicals.
 - C) has initiated media campaigns to alert the public to toxic chemicals.
 - D) uses human cancer patients to screen potential allergens in the workplace.

Answer: <https://biology-forums.com/index.php?topic=256545>

Question 963

- Control of bedbugs is difficult because their habitat is
- A) lawns and gardens frequented by people and pets.
 - B) initially cats and dogs and then transfers to human hosts.
 - C) human bedding, cracks in bed frames and nearby household objects.
 - D) widely dispersed in forested and brushy environments.

Answer: <https://biology-forums.com/index.php?topic=259040>

Question 964

- The 2008 World Food Summit generally agreed to
- A) eliminate the use of all grains for biofuel production.
 - B) reduce hunger and malnutrition in the world by 5%.
 - C) help the countries most dependent on imported grains produce more food.

D) build dams and irrigation systems to help increase crop production in the developing world.

Answer: <https://biology-forums.com/index.php?topic=259009>

Question 965

Cod landings from the Georges Bank of North America

- A) have now bounced back to levels higher than 40 years ago.
- B) are about 50% of what they were 40 years ago.
- C) reveal the healthy sustainability of a well-managed fishery.
- D) are seriously depleted and need sustainable management practices.

Answer: <https://biology-forums.com/index.php?topic=258570>

Question 966

Given the history of biomagnification of persistent organic pollutants (POPs), in British Columbia ecosystems, we would expect to find the highest concentrations of POPs in

- A) water in the oceans.
- B) algae in the oceans.
- C) salmon living in the oceans.
- D) grizzly bears that eat the salmon from the oceans.

Answer: <https://biology-forums.com/index.php?topic=257209>

Question 967

Steam powered airplanes

- A) were widely used until the 1970s, when jet fuel prices made other engines more efficient.
- B) are impractical because of the low power-to-weight advantage.
- C) were used for commercial air travel but were discontinued because of safety regulations.
- D) are under development and are expected to be the next phase of jet technology.

Answer: <https://biology-forums.com/index.php?topic=259139>

Question 968

In the state of Arizona, the use of groundwater has been aggressively managed since about 1980. Before that time, agricultural, commercial, and private demands for water were growing at levels that were not sustainable. Before water regulation of any sort, demand for water in all its forms in the state of Arizona illustrated the

- A) tragedy of the commons.
- B) use of a nonrenewable resource.
- C) need for the preservation but not conservation of a resource.
- D) need for agreements such as CITES.

Answer: <https://biology-forums.com/index.php?topic=258546>

Question 969

No-till farming would be most beneficial for farmers

- A) with steeply sloped fields.
- B) who plant a cash crop every third year.
- C) who typically experience minimal soil erosion.
- D) using contour strip cropping.

Answer: <https://biology-forums.com/index.php?topic=258928>

Question 970

Of all the sources of pollution noted in this figure, which one releases the greatest amount of toxic substances into the environment?

- A) homes
- B) automobiles
- C) small businesses
- D) industrial facilities

Answer: <https://biology-forums.com/index.php?topic=257271>

Question 971

Compared to countries still struggling to complete the demographic transition, countries that have gone through the demographic transition have

- A) higher growth in per capita income and technology.
- B) higher growth in technology but lower growth in per capita income.
- C) higher growth in per capita income but lower growth in technology.
- D) lower growth in per capita income and technology.

Answer: <https://biology-forums.com/index.php?topic=258702>

Question 972

Which of the following is one of the most common factors contributing to cultural eutrophication of lakes near large cities?

- A) runoff from parking lots
- B) sewage-treatment effluent
- C) using lake water for cooling coal-fired power plants
- D) the use of gasoline engines on boats

Answer: <https://biology-forums.com/index.php?topic=257031>

Question 973

In the southeastern United States, the red fire ant is

- A) a natural predator that is a dominant species in forest ecosystems.
- B) an invasive species that has caused a decline in biodiversity.
- C) used to control invasive insect species that could potentially hurt agricultural crops.
- D) has increased songbird populations which use it as food.

Answer: <https://biology-forums.com/index.php?topic=258443>

Question 974

Considerable efforts have been underway to save the California condor from extinction. This effort is an example of

- A) asset management.
- B) a renewable resource.
- C) preservation.
- D) conservation.

Answer: <https://biology-forums.com/index.php?topic=258534>

Question 975

The five main revolutions of human history have all resulted in

- A) a greater reliance upon fossil fuels.
- B) an increase in human carrying capacity.
- C) a reduction in the spread of disease.
- D) increased need for transportation.

Answer: <https://biology-forums.com/index.php?topic=258632>

Question 976

China, Malaysia and Indonesia are examples of developing nations that have

- A) successfully entered the global market.
- B) been unable to escape the poverty-debt trap.
- C) become fragile states.
- D) not yet entered the process of demographic transition.

Answer: <https://biology-forums.com/index.php?topic=258773>

Question 977

The sustainability of agricultural practices

- A) decreases if the soil is degraded by erosion or salination.
- B) requires that the soil be plowed at least three times annually.
- C) increases if the field is irrigated in amounts equal to the total annual rainfall.
- D) requires the presence of soil nematodes.

Answer: <https://biology-forums.com/index.php?topic=258918>

Question 978

Part of the Green Revolution, the wheat in this photograph was specially selected because of its ability to

- A) produce high-yields of grain.
- B) resist prolonged droughts.
- C) naturally produce pesticides.
- D) produce grain with high levels of iron.

Answer: <https://biology-forums.com/index.php?topic=258967>

Question 979

In general, biodiversity is

- A) fairly evenly spread among all of the major groups of animals and plants.
- B) accurately quantified for most ecosystems.
- C) 75% plant species and 25% animal species.
- D) declining in the United States and around the world.

Answer: <https://biology-forums.com/index.php?topic=258428>

Question 980

Energy is lost as it moves from one trophic level to the next because

- A) one trophic level does not consume the entire trophic level below it.
- B) some of the calories consumed drive cellular activities and do not add mass.
- C) some ingested materials are undigested and eliminated.
- D) All of the above.

Answer: <https://biology-forums.com/index.php?topic=258349>

Question 981

What does the replacement-level fertility rate include that is not part of the total fertility rate?

- A) nutrition of the family
- B) infant and childhood mortality
- C) availability of mates
- D) use of birth control

Answer: <https://biology-forums.com/index.php?topic=258643>

Question 982

During the polar vortex, the greatest stratospheric thinning of the ozone layer would be expected in

- A) July in the Antarctic.
- B) January in the Antarctic.
- C) July at the equator.
- D) January in the Arctic.

Answer: <https://biology-forums.com/index.php?topic=256884>

Question 983

The confidence in a scientific theory is most related to

- A) the number of grants received to study the subject.
- B) the reputation of the investigating scientists and their related universities.
- C) the amount of unbiased supporting evidence.
- D) the number of publications that discuss the subject in question.

Answer: <https://biology-forums.com/index.php?topic=258026>

Question 984

The relationship between the moose and wolf populations on Isle Royale reveals

- A) intraspecific competition.
- B) top-down and bottom-up population regulation.
- C) the high and steady environmental resistance on wolves.
- D) the high and steady environmental resistance on moose.

Answer: <https://biology-forums.com/index.php?topic=258266>

Question 985

Which of the following would reduce the greatest amount of MSW?

- A) using half as much toilet paper when you use the restroom
- B) using paper towels whenever possible instead of sponges and rags
- C) buying concentrated cleaning solutions and refilling cleaning bottles at home
- D) buying food products in individual serving containers whenever possible

Answer: <https://biology-forums.com/index.php?topic=257145>

Question 986

A loss of biodiversity will likely

- A) increase the number of k-strategists.
- B) increase the demand for ecotourism.
- C) increase the number of pest species.

D) eliminate most forest ecosystems of the world.

Answer: <https://biology-forums.com/index.php?topic=258486>

Question 987

Which of the following is not an example of gray water?

- A) water from a sink
- B) water from a toilet
- C) water from a clothes washer
- D) water from a shower

Answer: <https://biology-forums.com/index.php?topic=258857>

Question 988

The harvest of organisms is more likely to be sustainable if organisms are captured

- A) before they have had a chance to reproduce.
- B) while they are still in the egg or seed stages.
- C) after they have had a chance to reproduce.
- D) during the first year of their life.

Answer: <https://biology-forums.com/index.php?topic=258533>

Question 989

Chemical methods to extract some usable energy from glucose molecules without using oxygen are possible and used by many organisms. However, cell respiration reactions using oxygen are more common because using oxidative respiration

- A) yields much more energy than anaerobic respiration.
- B) generates the water needed by most organisms to survive.
- C) provides carbon dioxide that is essential for photosynthesis.
- D) allows glucose to be stored instead of burned.

Answer: <https://biology-forums.com/index.php?topic=258213>

Question 990

The burning dump in this photograph illustrates a MSW disposal method most commonly practiced

- A) in the United States before the 1960s.
- B) in the United States between 2000 and 2010.
- C) today in developed countries with low population densities.
- D) today in developed countries with high population densities.

Answer: <https://biology-forums.com/index.php?topic=257085>

Question 991

Our increasing human population requires that future management of natural systems be

- A) towards sustainability.
- B) focused on maximizing the harvest of natural resources.
- C) evaluated in terms of the gross national product.
- D) focused on agricultural productivity.

Answer: <https://biology-forums.com/index.php?topic=258393>

Question 992

Enrichment of nuclear fuel

- A) increases the relative concentration of uranium-235 to only 3-5% to avoid any possibility nuclear explosion at higher percentages.
- B) increases the relative concentration of uranium-235 to 30-50% to avoid a nuclear explosion at higher percentages.
- C) decreases the relative concentration of uranium-235 from 60% to only 3-5% to avoid a nuclear explosion at higher percentages.
- D) decreases the relative concentration of uranium-235 from 100% to 30-50% to avoid a nuclear explosion at higher percentages.

Answer: <https://biology-forums.com/index.php?topic=259240>

Question 993

When cities dumped sewage into natural waterways with limited capacity for dilution,

- A) oxygen levels were severely lowered and most aquatic life died.
- B) the extra organic matter fertilized the region, which quickly filled in with new plants.
- C) the extra organic matter created fertile areas that attracted wildlife including migratory birds.
- D) bacterial growth greatly increased and the sewage was safely recycled into soil.

Answer: <https://biology-forums.com/index.php?topic=256906>

Question 994

How do the populations of the United States and India compare today?

- A) Each country has about the same density of people per square mile.
- B) The population density of the U.S. is greater than of India.
- C) India has the same population size of the United States.
- D) India has almost four times the population of the United States.

Answer: <https://biology-forums.com/index.php?topic=258743>

Question 995

The Stockholm Convention came into effect in 2011 and with 178 signatory nations will

- A) require that all agriculture meet sustainable criteria by 2040.
- B) require a zero tolerance for pesticide residues in all foods designed especially for children.
- C) mandate a decrease of global meat production by 35% by 2050.
- D) ban or strictly regulate the twelve most dangerous chemical pesticides.

Answer: <https://biology-forums.com/index.php?topic=259129>

Question 996

The greatest human population increases over the next few decades is expected to occur in

- A) North America.
- B) South America.
- C) Africa.
- D) Western Europe.

Answer: <https://biology-forums.com/index.php?topic=258644>

Question 997

Around the world, photovoltaic technology is quickly being adopted to generate electricity in

- A) large scale commercial power plants and on rooftop home units.
- B) large scale commercial power plants but not yet on rooftop home units.
- C) rooftop home units but not large scale commercial power plants.
- D) small electronic applications such as calculators but not yet on rooftops or in commercial power plants.

Answer: <https://biology-forums.com/index.php?topic=259336>

Question 998

A large oak tree with its abundant leaves glimmering in the sun on an early fall morning represents

- A) a heterotrophic producer.
- B) an autotrophic consumer.
- C) a heterotrophic consumer.
- D) an autotrophic producer.

Answer: <https://biology-forums.com/index.php?topic=258322>

Question 999

The general U.S. government response to possible terrorism at nuclear power plants since 2001 has been

- A) limited to a few unenforced regulations.
- B) to convert nuclear facilities to military installations with state of the art security.
- C) enhanced security at plants and at spent fuel storage pools.
- D) nothing, because of budget cuts brought about by the 2008 recession.

Answer: <https://biology-forums.com/index.php?topic=259281>

Question 1000

Most plant productivity in a forest is most directly related to the

- A) intensity of sunlight reaching the forest floor.
- B) unvarying temperatures throughout the year.
- C) consistent precipitation in every month of the year.
- D) quality of topsoil in the forest.

Answer: <https://biology-forums.com/index.php?topic=258913>

Question 1001

You have a bicycle accident. Although you are OK, the bike is a mess. The rear wheel is bent, it will need a new chain, and the front tire is punctured.

The estimated cost of repair is about \$ 100. You can buy a new bike for about \$ 120. What is the most environmentally friendly option?

- A) repair the bike
- B) buy a new bike and toss the old one
- C) just drive your car instead
- D) toss the old bike and buy a cheap used one at a garage sale

Answer: <https://biology-forums.com/index.php?topic=257130>

Question 1002

Which of the following promotes atmospheric condensation and the formation of clouds?

- A) aerosols
- B) increasing temperatures
- C) decreasing humidity
- D) a reduction in transpiration

Answer: <https://biology-forums.com/index.php?topic=258794>

Question 1003

Colony collapse disorder

- A) affects honey bees colonies leaving most of the workers dead in the hive.
- B) has been traced to poisoning by organophosphate pesticides.
- C) is thought to be caused by a combination of pesticides, pathogens, hive pests or other synergistic toxic chemicals.
- D) is not a threat to U.S. crops because other unaffected pollinators will replace honey bees.

Answer: <https://biology-forums.com/index.php?topic=259087>

Question 1004

In the United States and many countries in Europe, there is renewed interest in nuclear power plants because of

- A) a worldwide shortage of coal.
- B) the spotty availability of natural gas.
- C) concern about global climate change.
- D) the greatly reduced costs associated with generating electricity using nuclear power.

Answer: <https://biology-forums.com/index.php?topic=259287>

Question 1005

Distilling salt water to make fresh water relies upon the processes of

- A) precipitation and infiltration.
- B) transpiration and evaporation.
- C) evaporation and condensation.
- D) condensation and transpiration.

Answer: <https://biology-forums.com/index.php?topic=258796>

Question 1006

One major effort in developing countries is illustrated in the photo above. This is an effort to

- A) emphasize environmental policy by moving classrooms outdoors.
- B) teach foreign languages in schools.
- C) increase the number of girls in schools.
- D) encourage better nutrition by teaching children how to raise chickens.

Answer: <https://biology-forums.com/index.php?topic=258750>

Question 1007

Global climate change may increase the number of worldwide famines by all of the following, except

- A) shifting the types of crops grown in a region.
- B) causing unpredictable and extreme weather events.
- C) increasing the number of droughts in the world.
- D) requiring the use of alternate forms of energy.

Answer: <https://biology-forums.com/index.php?topic=259025>

Question 1008

The statement, "The Earth was not given to you by your parents, it was lent to you from your children" best reflects

- A) junk science.
- B) higher rates of consumption of non-renewable materials.
- C) stewardship.

D) the need for a strong central or military government.

Answer: <https://biology-forums.com/index.php?topic=258040>

Question 1009

To provide south Florida with water during its winter dry season, the Everglades Restoration Plan calls for

- A) strict water conservation in farming and urban areas during the dry months.
- B) directing water away from Everglades National Park into reservoirs for urban and farm use.
- C) directing more water into the Everglades flow system and building underground reservoirs.
- D) digging canals to bring in additional water from the Atlantic and the Gulf of Mexico.

Answer: <https://biology-forums.com/index.php?topic=258605>

Question 1010

Two major approaches to non-fossil-fuel energy alternatives are renewable energy and

- A) nuclear power.
- B) geothermal.
- C) wind energy.
- D) solar energy.

Answer: <https://biology-forums.com/index.php?topic=259222>

Question 1011

Most of the efforts of the United Nations to promote food security, including the 2008 World Food Summit, function at the

- A) global level.
- B) national level.
- C) family level.
- D) personal level.

Answer: <https://biology-forums.com/index.php?topic=259012>

Question 1012

Which of the following processes reduces entropy?

- A) photosynthesis
- B) cell respiration
- C) walking up a flight of stairs
- D) burning gasoline in an automobile engine

Answer: <https://biology-forums.com/index.php?topic=258205>

Question 1013

Security of nuclear resources and the safe storage of nuclear wastes

- A) remain a global challenge.
- B) have been improved by concentrating these in four secure locations throughout the world.
- C) have now been addressed by UN task forces who guard resources that are subject to terrorist attacks.
- D) remain a problem only outside of the United States and Canada.

Answer: <https://biology-forums.com/index.php?topic=259282>

Question 1014

When you exhale, the major components of your breath include all of the following except

- A) carbon dioxide.
- B) nitrogen.
- C) oxygen.
- D) hydrogen.

Answer: <https://biology-forums.com/index.php?topic=256734>

Question 1015

What stage of wastewater treatment would remove a condom that had improperly been flushed down a toilet?

- A) grit chamber
- B) activated-sludge system
- C) debris removal
- D) anaerobic digestion

Answer: <https://biology-forums.com/index.php?topic=256970>

Question 1016

Oceanographers are studying the thermohaline currents to determine

- A) whether they are becoming more acidic.
- B) whether global climate change may slow or alter their path.
- C) whether they could be replaced with artificial currents if damaged by changing temperatures.
- D) if warm water from polar and glacial melt is affecting the chemistry of the currents.

Answer: <https://biology-forums.com/index.php?topic=258819>

Question 1017

Examine the historical changes in carbon dioxide levels and global temperatures in these figures. Although carbon dioxide levels have climbed steadily over the past 50 years, global temperatures for the same period have been more erratic, increasing and decreasing, yet climbing overall. Which is the most reasonable hypothesis explaining why global temperatures are more erratic than carbon dioxide levels?

- A) Carbon dioxide accumulates in the atmosphere while many factors affect global temperatures.
- B) Carbon dioxide steadily escapes from the atmosphere into space while global temperatures accumulate irregularly.
- C) Carbon dioxide levels are produced at an even rate while clouds may cool the Earth unevenly.
- D) Carbon dioxide levels increase temperature until the heat destroys some of the carbon dioxide, lowering temperatures irregularly.

Answer: <https://biology-forums.com/index.php?topic=257989>

Question 1018

The method illustrated in these figures is testing water for

- A) eutrophication fertilizers.
- B) bacterial contamination.
- C) fungal infections.
- D) oxygen levels.

Answer: <https://biology-forums.com/index.php?topic=256943>

Question 1019

The United States uses much more oil than it produces. Therefore, the United States is dependent upon other countries to meet its energy needs. However, much of this trade imbalance is offset by the exportation of large quantities of

- A) automobiles.
- B) grains.
- C) palm oil, spices, and cocoa.
- D) household goods (TVs, dishwashers, furnaces, etc.).

Answer: <https://biology-forums.com/index.php?topic=259006>

Question 1020

Which one of the following would likely result from the imposition of green fees?

- A) The price of fossil fuels would decrease.
- B) Our economy would move toward sustainability.
- C) The price of an item will no longer reflect its total cost.
- D) People will increase their use of products that negatively impact the environment.

Answer: <https://biology-forums.com/index.php?topic=258119>

Question 1021

One of the major problems associated with long-term, high-level nuclear waste storage is

- A) selecting an environment that will remain stable for more than 10,000 years.
- B) determining a cost-effective way to shoot waste into space.
- C) figuring out how to contain the material so that it does not leak into the ocean.
- D) creating a secure environment to protect the material from terrorists.

Answer: <https://biology-forums.com/index.php?topic=259268>

Question 1022

Which one of the following permitted the widespread move into suburbs after WWII?

- A) increased use of telephones and television
- B) increased ownership of automobiles
- C) improvements in the railway and bus systems
- D) cheaper sources of energy

Answer: <https://biology-forums.com/index.php?topic=257378>

Question 1023

The 1994 Cairo population conference broadly agreed that slower population growth resulted from

- A) better health care, education, and employment for women.
- B) improved agricultural techniques that could dramatically increase food production.
- C) the widespread use of immunizations to slow the spread of infectious diseases.
- D) drainage of swamps and treatments of waters to decrease cases of malaria.

Answer: <https://biology-forums.com/index.php?topic=258699>

Question 1024

Over the last one hundred years in the United States,

- A) soil erosion has steadily increased while wind erosion has steadily decreased.
- B) estimates and actual measurements indicate that soil erosion has decreased.
- C) the increased reliance on plowing and technology has increased soil and wind erosion.
- D) measurements of the amount of soil in major rivers indicate great increases in soil erosion.

Answer: <https://biology-forums.com/index.php?topic=258937>

Question 1025

Biodiversity is important because

- A) it is necessary to maintain stability of ecosystems.
- B) humans can use new sources of food.
- C) If certain species decline, photosynthesis may not be possible.
- D) If certain species decline, there would be too much oxygen in the atmosphere.

Answer: <https://biology-forums.com/index.php?topic=257992>

Question 1026

Permanent polyculture is an approach to sustainable agriculture where farms

- A) are community-supported enterprises.
- B) grow a single crop on large parcels of land.
- C) and the crops grown on them are modeled on natural ecosystems.
- D) use GM "super predator" species to control pests.

Answer: <https://biology-forums.com/index.php?topic=259032>

Question 1027

Most recently, the official development assistance of the United States government

- A) is about the same as contributions from all private organizations in the United States.
- B) as a percent of GNI, is about the same as the country of Norway.
- C) combined with all US private philanthropy, was less than 1.0 % of GNI.
- D) has declined to levels below those a decade or more ago.

Answer: <https://biology-forums.com/index.php?topic=258736>

Question 1028

Although the Green Revolution has greatly reduced world hunger and malnutrition, it has

- A) doubled the amount of land used to raise crops.
- B) not significantly increased the productivity of modern agriculture.
- C) required high levels of increasingly expensive fertilizer and pesticides.
- D) contributed significantly to the destruction of the ozone layer.

Answer: <https://biology-forums.com/index.php?topic=258966>

Question 1029

Marine protected areas are

- A) the primary regions of commercial aquaculture.
- B) successful and have proven vital to the recovery of many overfished regions.
- C) primarily breeding regions where whales and dolphins rear their young.
- D) temporary zones that shelter feeding activities of marine organisms for part of a year.

Answer: <https://biology-forums.com/index.php?topic=258578>

Question 1030

Which of the following are most commonly recycled from MSW, at the highest percentages?

- A) plastic and glass
- B) aluminum and glass
- C) plastic, textiles, and old tires
- D) yard wastes, paper, and paperboard

Answer: <https://biology-forums.com/index.php?topic=257154>

Question 1031

Sweden represents a nation in which

- A) women tend to marry early and have large families.
- B) women tend to marry late, enter the work force and have significant social and medical services.
- C) women are poorly educated and usually cannot find employment.
- D) the population is characterized mostly by large numbers of people under 25 and a much smaller elderly age group.

Answer: <https://biology-forums.com/index.php?topic=258607>

Question 1032

Small-scale businesses in Bangladesh have done well because of the Grameen bank lending

- A) large amounts of money to men.
- B) large amounts of money to women.
- C) small amounts of money to men.
- D) small amounts of money to women.

Answer: <https://biology-forums.com/index.php?topic=258768>

Question 1033

Which one of the following soil orders is the most typical of drylands and deserts?

- A) alfisols
- B) oxisols
- C) mollisols
- D) aridisols

Answer: <https://biology-forums.com/index.php?topic=258885>

Question 1034

About 150 years ago, self-sufficiency in the production of food no longer became restrictive to countries because of

- A) the global decline in droughts, blights, or wars.
- B) the Industrial Revolution.
- C) the Green Revolution.
- D) biotechnology.

Answer: <https://biology-forums.com/index.php?topic=259003>

Question 1035

Air pollution in a heavily industrialized region would be reduced and the air would be healthier if that region

- A) received more rain.
- B) received less sunshine.
- C) were at least 200 miles from an ocean.
- D) used more coal to generate electricity.

Answer: <https://biology-forums.com/index.php?topic=256749>

Question 1036

The population of game fish in a lake is under heavy fishing pressure. If too many fish are caught, the population will crash and future years of fishing will suffer. The game fish can exhibit logistic growth under certain circumstances. Assuming logistic growth, it would be best to manage this game fish population by permitting the harvesting of just enough fish to keep the game fish population

- A) at 1/10 of its carrying capacity.
- B) at half its carrying capacity.
- C) at its full carrying capacity.
- D) above its carrying capacity.

Answer: <https://biology-forums.com/index.php?topic=258242>

Question 1037

The recent rise of the Chinese economy is associated with

- A) the adoption of rigid centralized planning.
- B) the elimination of economic systems.

- C) the adoption of economic policies widespread in the former Soviet Union.
D) a switch to free-market policies.

Answer: <https://biology-forums.com/index.php?topic=258064>

Question 1038

Unlike corrosion, embrittlement results in the degradation of nuclear power plant materials from the

- A) buildup up iron oxide after prolonged exposure to water.
B) rapid expansion and contraction of super-heated and ice-cold water through most of the pipes.
C) use of highly corrosive saltwater throughout most of the water pipes.
D) bombardment of materials by neutrons produced by fission.

Answer: <https://biology-forums.com/index.php?topic=259285>

Question 1039

In the world today, the production and distribution of food in the world is generally treated as a

- A) commons.
B) market economy.
C) right of every citizen to be free of hunger.
D) responsibility of impoverished nations.

Answer: <https://biology-forums.com/index.php?topic=259030>

Question 1040

Homeowners living in a heavily forested region surrounding a small 3-acre pond in Missouri decided to reduce air pollution in their neighborhood. In the fall, after the oak and maple leaves had fallen, the homeowners blew all of the dead leaves into the pond. About 8 months later, in July, they noticed a large number of dead fish in the pond. What is the most likely cause of the fish kill?

- A) the dead leaves released poisons that killed the fish
B) the bacteria decomposing the leaves depleted the levels of oxygen
C) bacteria fed on the leaves and then the bacteria infected the fish
D) carbon dioxide from the decaying leaves reached toxic levels and killed the fish

Answer: <https://biology-forums.com/index.php?topic=256945>

Question 1041

In the United States, the use of hydropower

- A) is likely to double in the next 20 years.
B) is likely to increase by about 40% by 2025.
C) will likely stay the same or decrease slightly in the next few decades.
D) will decline considerably, by as much as 50%, by the year 2030.

Answer: <https://biology-forums.com/index.php?topic=259352>

Question 1042

Which of the following is a good example of the use of "green chemistry"?

- A) switching from dry cleaning to wet cleaning methods
B) drinking bottled water instead of tap water
C) increasing the mileage rates on automobiles
D) walking or riding a bicycle instead of driving a car

Answer: <https://biology-forums.com/index.php?topic=257359>

Question 1043

In most energy conversions, such as burning coal to produce heat,

- A) entropy increases because of heat released in the conversion.
B) entropy decreases because of heat released in the conversion.
C) entropy is unchanged because heat is used to ignite the coal.
D) entropy decreases because heat is used to ignite the coal.

Answer: <https://biology-forums.com/index.php?topic=258195>

Question 1044

The fluid core of the Earth

- A) is mostly water that has leaked in from the oceans.
B) remains fluid because of heat generated by radioactive decay.
C) results from heat generated by the friction of the tectonic plates moving over each other.
D) is a watery substance that lubricates the movement of the tectonic plates.

Answer: <https://biology-forums.com/index.php?topic=258303>

Question 1045

Global Assessment of Land Degradation and Improvement (GLADA) recently has started using satellite imagery to estimate above ground plant biomass. From this data we can describe

- A) the types of soil below ground.
- B) the amount of topsoil and the state of its microorganisms.
- C) how much erosion and salination have occurred.
- D) how land degradation and productivity change over time.

Answer: <https://biology-forums.com/index.php?topic=258931>

Question 1046

The light bulbs in this figure are designed to

- A) produce more light than normal bulbs.
- B) use less electricity than incandescent bulbs to produce light.
- C) be powered by heat from CHP technology.
- D) turn off automatically when nobody is in a room.

Answer: <https://biology-forums.com/index.php?topic=259225>

Question 1047

The building in this photograph represents the use of

- A) active solar heating in the winter and active shading in the summer.
- B) passive solar heating in the winter and passive shading in the summer.
- C) passive solar heating in the summer and active shading in the winter.
- D) active solar heating in the summer and passive shading in the winter.

Answer: <https://biology-forums.com/index.php?topic=259327>

Question 1048

Many conservationists support returning top predators such as wolves and panthers to areas where they have been exterminated. Although some reintroductions have been made, the practice is controversial because these animals are

- A) considered by some ranchers to be a threat to livestock and humans.
- B) being introduced into areas that have never had predators before.
- C) predators that feed on many other endangered species.
- D) carriers of diseases that may infect other species in the region.

Answer: <https://biology-forums.com/index.php?topic=258502>

Question 1049

Which one of the following is least likely to be a product of a transition to a sustainable civilization?

- A) a stable human population
- B) increased reliance upon recycled materials
- C) larger cities with extensive suburbs
- D) greater reliance upon renewable energy resources

Answer: <https://biology-forums.com/index.php?topic=258039>

Question 1050

As demands for electricity push the limits of existing electric-power-generating plants in the United States, when is it most likely that a brown-out or blackout will disrupt electricity to your home computer?

- A) during a weekend in the winter
- B) during a weekday in the winter
- C) during a weekend in the summer
- D) during a weekday in the summer

Answer: <https://biology-forums.com/index.php?topic=259152>

Question 1051

During the 1980s, damaging acid precipitation in North America largely fell

- A) on Canada and the New England States.
- B) in the Midwestern United States.
- C) on the western states and Canadian provinces.
- D) in the southwestern United States and Canada.

Answer: <https://biology-forums.com/index.php?topic=256868>

Question 1052

Biomes with more than 75 centimeters (30 inches) of rain a year and that never experience freezing temperatures are most likely found

- A) at high altitudes.
- B) nearest the equator at low altitudes.
- C) at high altitudes in temperate zones.
- D) at high altitudes and high latitudes.

Answer: <https://biology-forums.com/index.php?topic=258351>

Question 1053

Coal, natural gas, and oil are not considered renewable sources of biomass energy because they

- A) were ultimately produced by photosynthesis.
- B) release carbon dioxide when burned.
- C) contribute to ozone destruction.
- D) were formed millions of years ago.

Answer: <https://biology-forums.com/index.php?topic=259357>

Question 1054

Which of the following is not a trace element in living organisms?

- A) iron
- B) copper
- C) zinc
- D) carbon

Answer: <https://biology-forums.com/index.php?topic=258181>

Question 1055

The most ecologically sustainable meat with the lowest environmental impact would be

- A) open ocean aquaculture of salmon or shrimp.
- B) harvesting wild populations of predatory species such as sharks.
- C) open ocean aquaculture of fish or mollusks that feed on phytoplankton.
- D) converting mangroves to aquaculture of fish or mollusks that feed on phytoplankton.

Answer: <https://biology-forums.com/index.php?topic=258577>

Question 1056

In the stratosphere, under natural conditions, ozone is formed and broken down by the action of

- A) UVB radiation.
- B) free chlorine atoms.
- C) sulfur and carbon oxides.
- D) particulate matter less than 2.5 micrometers in diameter.

Answer: <https://biology-forums.com/index.php?topic=256890>

Question 1057

The ability of scientists to understand the natural relationships between organisms and their environments depends upon the

- A) institutional value of the organisms in the ecosystem.
- B) development of bioengineered organisms.
- C) instrumental value of the natural resources in the region.
- D) availability and preservation of undisturbed regions in the world.

Answer: <https://biology-forums.com/index.php?topic=258424>

Question 1058

In the summer, some people place a windshield reflector in the front of their cars to reduce the buildup of heat inside the car. In the greenhouse effect, this would be most like

- A) increasing sulfate aerosol and high clouds in the sky.
- B) adding more carbon dioxide to the atmosphere.
- C) decreasing the amount of ozone in the stratosphere.
- D) increasing the amount of acid rain that is produced by burning coal.

Answer: <https://biology-forums.com/index.php?topic=256639>

Question 1059

After testing its water, a city water department issues a report to the related citizens, noting what chemicals have been identified, their doses, and the estimated risks of exposure at these levels. This report represents a type of

- A) exposure assessment.
- B) dose-response assessment.
- C) hazard assessment.
- D) risk characterization.

Answer: <https://biology-forums.com/index.php?topic=256537>

Question 1060

This region of Iceland once was covered with forests. However, humans logged the trees and grazed sheep on the logged regions, preventing natural regeneration. This situation, in which one ecosystem has now been converted to another, represents

- A) a tipping point for this ecosystem.
- B) the power of natural resilience mechanisms.
- C) reverse ecological succession.
- D) a sustainable approach to ecosystem management.

Answer: <https://biology-forums.com/index.php?topic=258381>

Question 1061

Which of the following gives the greatest increase to the economic progress of a developing country?

- A) enrolling more men in trade schools
- B) increasing scholarships to increase enrollments in engineering schools
- C) increasing basic literacy rates of boys, girls and undereducated adults
- D) teaching young women how to prepare more nutritious meals

Answer: <https://biology-forums.com/index.php?topic=258748>

Question 1062

Environmental public policy is intended to

- A) promote the harvesting of natural resources.
- B) improve human welfare and protect the natural world.
- C) ensure access to natural resources for industry.
- D) measure the impact of industrial wastes on the environment.

Answer: <https://biology-forums.com/index.php?topic=258101>

Question 1063

The authors urge a national policy for the United States that includes

- A) relying on desalination plants as the primary strategy for meeting future water needs.
- B) halting water subsidies and increasing conservation.
- C) charging polluters according to their effluents.
- D) requiring dam operators to maximize hydroelectric output.

Answer: <https://biology-forums.com/index.php?topic=258863>

Question 1064

When a single species evolves into two species, the new species must

- A) be reproductively isolated.
- B) evolve different diets.
- C) be exposed to the same selective pressures.
- D) live on a different continent.

Answer: <https://biology-forums.com/index.php?topic=258296>

Question 1065

Two species have separate ranges but use the same food resources. However, their ranges overlap in one area. It is found in the area of overlap the species have evolved separate anatomical specializations that reduce interspecific competition for food. This is an example of

- A) biotic transformation.
- B) competitive exclusion.
- C) resource partitioning.
- D) character displacement.

Answer: <https://biology-forums.com/index.php?topic=258279>

Question 1066

Evidence from proxies indicate eight major oscillations in global temperatures over the past 800,000 years, most likely the result of

- A) rising and falling sea levels that greatly impact photosynthetic activity.
- B) variations in solar activity that produce different levels of radiation.
- C) Milankovitch cycles of periodic variations in Earth's orbits around the sun.
- D) lunar cycles in which the moon orbits at different distances from the Earth.

Answer: <https://biology-forums.com/index.php?topic=256619>

Question 1067

Global soil erosion

- A) increases the populations of aquatic organisms in streams and rivers.
- B) adds soils to streams and rivers, which removes many pollutants.
- C) pollutes rivers and oceans and reduces the refill rates of aquifers.
- D) creates new ponds and lakes, which help to retain water in aquifers.

Answer: <https://biology-forums.com/index.php?topic=258942>

Question 1068

In the summer, the heater on an automobile still works well, even though you do not need it. This is because the heater in a car draws on surplus heat generated when gas is used to power the engine. This extra heat, wasted in the summer, is produced as a result of the

- A) law of the conservation of momentum.
- B) first law of thermodynamics.
- C) law of inertia.
- D) second law of thermodynamics.

Answer: <https://biology-forums.com/index.php?topic=258192>

Question 1069

The increased reliance upon raw materials from many parts of the world resulted from which revolution?

- A) Industrial Revolution
- B) Medical Revolution
- C) Green Revolution
- D) Environmental Revolution

Answer: <https://biology-forums.com/index.php?topic=258620>

Question 1070

In which form are water molecules most closely bonded to each other?

- A) water vapor
- B) liquid water
- C) solid ice
- D) water vapor and ice have the same, closest bonds

Answer: <https://biology-forums.com/index.php?topic=258174>

Question 1071

As a result of the lessons learned from the 1984 Bhopal, India, disaster, the 1986 EPCRA requires

- A) all companies handling toxic wastes to be located at least one mile from any city border.
- B) emergency response teams in every company that makes a product in the United States.
- C) companies that handle more than 5 tons of hazardous materials to provide detailed information to local emergency planning committees.
- D) all companies to purchase HAZMAT insurance.

Answer: <https://biology-forums.com/index.php?topic=257340>

Question 1072

APHIS oversees both

- A) organic and USDA Organic certifications.
- B) agricultural bioterrorism and safety of GM organisms.
- C) regulation of pesticides and herbicides.
- D) the U.S. Departments of Agriculture and Food Security.

Answer: <https://biology-forums.com/index.php?topic=259128>

Question 1073

According to the "hygiene hypothesis," to reduce the chances of developing asthma, people raising children in

- A) developing countries should keep their children away from farm animals.
- B) developing countries should try to raise their children in cities.
- C) cities in developed countries might want to have a pet dog or cat.

D) rural portions of developed countries should not have dogs or cats.

Answer: <https://biology-forums.com/index.php?topic=256516>

Question 1074

Abortion

- A) is encouraged by the United Nations as part of its policy on family planning.
- B) remains the most effective way for people in developed nations to limit family size.
- C) is rarely performed in developing countries because of the lack of medical care.
- D) would be less common if family planning services were more available.

Answer: <https://biology-forums.com/index.php?topic=258763>

Question 1075

Current U.S. plans for nuclear power production in 2030 are to

- A) increase generating capacity by about 15%.
- B) double generating capacity.
- C) keep the generating capacity about the same.
- D) shift to increased reliance on fossil fuels.

Answer: <https://biology-forums.com/index.php?topic=259230>

Question 1076

The graph in this figure suggests that

- A) global grain production will increase if the global consumption of meat increases.
- B) more grains should be directed into food for livestock to alleviate global hunger.
- C) global grain production has not kept up with population growth.
- D) eating less meat will make more grain available for human consumption.

Answer: <https://biology-forums.com/index.php?topic=259033>

Question 1077

Air pollutants most often lead to human health problems of the

- A) circulatory and respiratory systems.
- B) circulatory and digestive systems.
- C) integumentary and muscular systems.
- D) eyes and nasal passages.

Answer: <https://biology-forums.com/index.php?topic=256806>

Question 1078

Plants such as leafy spurge can double their population size every year in part because of their efficient production of large amounts of seeds.

- Populations that can double every year, such as leafy spurge,
- A) will do so endlessly, eventually achieving a global distribution.
 - B) are examples of logistic growth.
 - C) probably have more predators than other species.
 - D) exhibit exponential growth as they spread to new regions.

Answer: <https://biology-forums.com/index.php?topic=258235>

Question 1079

Unlike fossil fuels, solar energy is considered nonpolluting because the chemical and radioactive products of fusion

- A) stay near the sun.
- B) are destroyed in Earth's atmosphere.
- C) would be produced on Earth anyway.
- D) quickly break down when they strike the Earth's soil.

Answer: <https://biology-forums.com/index.php?topic=259313>

Question 1080

Anaerobic respiration

- A) occurs without oxygen and may produce methane gas.
- B) is a type of photosynthesis that does not require carbon dioxide.
- C) typically results in increased biomass.
- D) requires oxygen to break down glucose and other plant sugars.

Answer: <https://biology-forums.com/index.php?topic=258338>

Question 1081

The industrial revolution resulted in many changes to farms in the United States. This revolution

- A) increased the number of family farms and increased the size of each farm.
- B) increased the number of family farms but decreased the size of each farm.
- C) increased the efficiency of farming resulting in fewer, larger farms.
- D) introduced new crops that required the development of new farming techniques.

Answer: <https://biology-forums.com/index.php?topic=258957>

Question 1082

A population of catfish in a muddy pond reaches its maximum size as the food supplies start to run low. Without any new sources of food, the catfish population remains steady. This population represents

- A) density-dependent logistic growth.
- B) density-independent logistic growth.
- C) density-dependent exponential growth.
- D) density-independent exponential growth.

Answer: <https://biology-forums.com/index.php?topic=258252>

Question 1083

Population growth and fertility rates are lowest in

- A) upper-income countries.
- B) upper- and middle-income countries.
- C) middle- and low-income countries.
- D) lower-income countries.

Answer: <https://biology-forums.com/index.php?topic=258642>

Question 1084

The most cleanly burning fossil fuel available that produces the least pollutants is

- A) coal, usually found in deposits deep within the Earth.
- B) kerosene, found in deposits associated with oil wells.
- C) natural gas, usually found in deposits associated with oil.
- D) nuclear energy, produced from rocks and minerals within the Earth.

Answer: <https://biology-forums.com/index.php?topic=259142>

Question 1085

Which of the following best represents potential energy converted to kinetic energy?

- A) a windmill pumping water up into a water storage tank
- B) plants capturing sunlight to produce sugars using photosynthesis
- C) turning on a flashlight
- D) pulling a boat up onto a shoreline

Answer: <https://biology-forums.com/index.php?topic=258189>

Question 1086

Consider a comparison of people living well in densely populated cities versus people living well in less dense suburbs. For the people living in the cities, it is

- A) less expensive to provide social services and utilities but costs more to control crime and pollution.
- B) less expensive to provide social services and control crime and pollution.
- C) more expensive to provide social services and utilities and to control crime and pollution.
- D) more expensive to provide social services and utilities but less to control crime and pollution.

Answer: <https://biology-forums.com/index.php?topic=257425>

Question 1087

In Massachusetts and other states, closed landfills are for the first time being used for

- A) producing electricity by incinerating solid wastes.
- B) generating electricity from acres of photocells covering the landfill surface.
- C) extraction of recyclable materials.
- D) disposal of radioactive waste from nuclear power plants.

Answer: <https://biology-forums.com/index.php?topic=257058>

Question 1088

Yucca Mountain in the state of Nevada is

- A) the location of a leaky nuclear power plant that will cost billions of dollars to clean up.
- B) the only potential site for long-term commercial nuclear waste storage in the United States, rejected for safety concerns in 2009.
- C) a military base that has accumulated low-level and high-level nuclear waste for many decades.
- D) the site of a lake that received illegal dumping of nuclear waste in the 1960s.

Answer: <https://biology-forums.com/index.php?topic=259269>

Question 1089

Developing countries are said to face double jeopardy for environmental hazards because of the threats of

- A) physical disasters and traditional cultural practices.
- B) physical disasters and infectious disease.
- C) infectious disease and increased exposure to toxic chemicals.
- D) their dependence on farms for food and income.

Answer: <https://biology-forums.com/index.php?topic=256461>

Question 1090

The main financial problems for a city experiencing urban blight result from

- A) a declining tax base.
- B) increasing industrial growth.
- C) the need to build new schools.
- D) increasing use of public transportation.

Answer: <https://biology-forums.com/index.php?topic=257446>

Question 1091

As cities in the United States grow, they are finding that the increased water demands are best addressed by addressing the water footprint, including especially

- A) building more reservoirs.
- B) drilling more wells.
- C) building desalination plants.
- D) conservation measures.

Answer: <https://biology-forums.com/index.php?topic=258856>

Question 1092

Energy is

- A) lost in the form of heat as energy is passed up a food chain.
- B) added in the form of heat as energy is passed up a food chain.
- C) lost in the form of carbon dioxide as energy is passed up a food chain.
- D) added in the form of heat as carbon dioxide is passed down a food chain.

Answer: <https://biology-forums.com/index.php?topic=258321>

Question 1093

In hydrothermal vent communities, we would not expect to find

- A) carbon compounds.
- B) chemosynthesis.
- C) chlorophyll.
- D) producers.

Answer: <https://biology-forums.com/index.php?topic=258329>

Question 1094

The developed countries of the world have contributed the most to global climate change. By applying the polluter pays and equity principles, we would expect that the

- A) developed countries will provide funds for adaptations in the developing countries such as the Maldives Islands.
- B) developing countries will provide funds for adaptations in the developed countries.
- C) precautionary principle will guide the payment of compensation to developed countries.
- D) stabilization wedge approach to global climate change will help to equalize the funds for adaptations.

Answer: <https://biology-forums.com/index.php?topic=256719>

Question 1095

Which one of the following is not used to disinfect treated wastewater ready to be released into natural waterways?

- A) chlorine gas
- B) ammonia
- C) ultraviolet light
- D) ozone

Answer: <https://biology-forums.com/index.php?topic=256982>

Question 1096

Which of the following represents an abiotic component of a forest community?

- A) the oak and hickory trees
- B) the mushrooms growing on and around rotting logs
- C) water trickling in a small stream
- D) bacteria in the soil

Answer: <https://biology-forums.com/index.php?topic=258145>

Question 1097

In a healthy soil environment that demonstrates sustainability,

- A) the levels of humus steadily declines, but the aeration increases.
- B) sandy or silty soils are steadily converted to clay soils.
- C) abundant populations of bacteria are steadily replaced by mycorrhizae.
- D) the humus forming processes of topsoil is renewed by the addition of detritus and humus.

Answer: <https://biology-forums.com/index.php?topic=258917>

Question 1098

Osmium tetroxide is widely used in electron microscopy because it is an excellent lipid fixative. However, osmium tetroxide can quickly cause irritation of the eyes and skin. Therefore, when handling osmium tetroxide, people should use a chemical hood and wear gloves to protect against osmium tetroxide's

- A) ignitability.
- B) toxicity.
- C) photoreactivity.
- D) corrosivity.

Answer: <https://biology-forums.com/index.php?topic=257237>

Question 1099

Reading through the long list of health effects of smoking tobacco, a student is shocked to find that smokers are inhaling carbon monoxide. Which of the following symptoms is most related to this particular component of tobacco smoke?

- A) shortness of breath
- B) fibrosis of the lungs
- C) chronic bronchitis
- D) suppressed immune functions

Answer: <https://biology-forums.com/index.php?topic=256808>

Question 1100

Groups of organisms that may have been separated for millions of years may be brought together in new combinations primarily by

- A) shifting weather patterns.
- B) changes in ocean currents.
- C) plate tectonics.
- D) changes in the Earth's magnetic fields.

Answer: <https://biology-forums.com/index.php?topic=258304>

Question 1101

Now, these students need to make a decision about what sort of towels they should purchase, again, in an attempt to generate the least amount of MSW. They agree that if they purchase paper towels, they will buy the thick, quilted brand. The best strategy, to generate the least amount of MSW, would be to purchase

- A) 5 bulk packages of 10 paper towels, for a total of 50 rolls of paper towels, and 10 garbage bags.
- B) 10 bulk packages of 5 paper towels, for a total of 50 rolls of paper towels, and 10 garbage bags.
- C) 25 packages of 2 paper towels each, for a total of 50 rolls of paper towels, and 10 garbage bags.
- D) one bag of 5 rags (about the size of 5 rolls of paper towels) that they can wash out and reuse.

Answer: <https://biology-forums.com/index.php?topic=257138>

Question 1102

All of us help to pay for the cleanup of leaking gasoline storage tanks when we

- A) purchase groceries.
- B) purchase gasoline.
- C) pay our federal income taxes.
- D) pay sales taxes on anything we buy.

Answer: <https://biology-forums.com/index.php?topic=257310>

Question 1103

Within soil, a natural cycle of

- A) decomposers break down detritus to release nutrients used by producers.
- B) detritus breaks down decomposers to release nutrients used by producers.
- C) decomposers break down nutrients to release detritus used by producers.
- D) decomposers break down detritus to release nutrients used by consumers.

Answer: <https://biology-forums.com/index.php?topic=258874>

Question 1104

This home system illustrates the use of

- A) ecothermal energy.
- B) biomass fuels.
- C) geothermal energy.
- D) hydroelectric energy.

Answer: <https://biology-forums.com/index.php?topic=259384>

Question 1105

Cities that move toward sustainability will have to do all of these, except

- A) promote social justice.
- B) manage growth.
- C) fight environmental degradation.
- D) greatly expand highways and parking facilities.

Answer: <https://biology-forums.com/index.php?topic=257483>

Question 1106

Cattle production in the United States and other developed nations involves CAFOs that

- A) produce large amounts of manure, all of which is diverted into soil restoration.
- B) produce 20% of the greenhouse gas methane that causes global warming.
- C) generate income used to support the large population of native people.
- D) produce leather that sustains millions of workers in the Brazilian leather industry.

Answer: <https://biology-forums.com/index.php?topic=258975>

Question 1107

Costs of pollution control tend to

- A) decrease over time because of initial investments in reductions and new technologies.
- B) decrease over time because regulations generally become less restrictive.
- C) increase over time as levels of acceptable pollution become increasingly restrictive.
- D) increase over time as new technologies require renewed investments.

Answer: <https://biology-forums.com/index.php?topic=258123>

Question 1108

Although you should not flush a used condom down a toilet, if a person did, this type of wastewater pollutant would represent

- A) debris and grit.
- B) dissolved inorganic material.
- C) colloidal and dissolved organic material.
- D) particulate organic matter.

Answer: <https://biology-forums.com/index.php?topic=256968>

Question 1109

In South America, farmers engage in slash and burn of the rain forest to

- A) increase areas for farming.
- B) provide fuel for cooking and heating homes.
- C) support the logging industry.
- D) provide wood for pulp to produce paper.

Answer: <https://biology-forums.com/index.php?topic=258660>

Question 1110

Nuclear fusion reactions

- A) were used in the atomic bombs dropped on Japan in 1945.
- B) require conditions that are not yet cost-efficient for the generation of electricity.
- C) are widely used today in nuclear power plants.
- D) can only occur in the special conditions of the sun and stars.

Answer: <https://biology-forums.com/index.php?topic=259296>

Question 1111

In 2011, 9.4 % of the energy used in the United States was renewable energy. Of that renewable energy, 12.8 percent was from wind. Therefore, in 2011, how much of the energy used in the United States was from wind?

- A) about 1%
- B) about 5%
- C) about 7%
- D) more than 10%

Answer: <https://biology-forums.com/index.php?topic=259303>

Question 1112

If the Earth had no atmosphere,

- A) less of the sun's energy would strike the Earth.
- B) all regions of the Earth would be considerably warmer.
- C) the Earth would experience much larger and more severe storms.
- D) the biogeochemical cycles on Earth would be much different.

Answer: <https://biology-forums.com/index.php?topic=256568>

Question 1113

Unlike developed countries, children in developing countries often die from

- A) common ailments such as diarrhea.
- B) hunting accidents.
- C) accidents involving farm equipment and other agricultural activities.
- D) snakebite or large predators such as crocodiles and tigers.

Answer: <https://biology-forums.com/index.php?topic=258752>

Question 1114

Which of the following products is difficult to recycle, clogs sewer pipes, and kills thousands of marine mammals and turtles every year?

- A) aluminum and steel cans
- B) plastic bottles
- C) glass containers
- D) thin plastic grocery bags

Answer: <https://biology-forums.com/index.php?topic=257175>

Question 1115

Which of the following represent ecosystems with high average annual net primary productivity?

- A) algal beds, reefs, swamps, and marshes
- B) open ocean and continental shelves
- C) boreal forest and temperate grasslands
- D) estuaries, tundra, lakes, and streams

Answer: <https://biology-forums.com/index.php?topic=258363>

Question 1116

Compared to 50 years ago, the thinning ozone layer has produced dramatic increases in cases of

- A) asthma and color blindness.
- B) cataracts and skin cancer.

- C) vitamin D deficiency and hearing loss.
- D) skin cancer and retinal detachment.

Answer: <https://biology-forums.com/index.php?topic=256878>

Question 1117

Which biome is characterized by the highest annual rainfalls and primary productivity?

- A) temperate deciduous forests
- B) temperate grasslands and prairies
- C) tropical rainforests
- D) tropical grasslands and prairies

Answer: <https://biology-forums.com/index.php?topic=258357>

Question 1118

Equity in the distribution of resources is promoted by growth in

- A) sustainable harvesting of renewable natural resources.
- B) human resources and produced capital.
- C) the harvesting of non-renewable and non-renewable natural capital.
- D) transportation and navigation systems to move produced capital.

Answer: <https://biology-forums.com/index.php?topic=258097>

Question 1119

The impact of global warming on the water cycle is expected to produce

- A) more precipitation.
- B) fewer droughts.
- C) fewer and less severe hurricanes.
- D) greater agricultural productivity in currently water-stressed regions.

Answer: <https://biology-forums.com/index.php?topic=258814>

Question 1120

The chemistry professor warned the students that you never store acids in metal containers because acids demonstrate a high level of

- A) ignitability.
- B) toxicity.
- C) reactivity.
- D) corrosivity.

Answer: <https://biology-forums.com/index.php?topic=257234>

Question 1121

A temperature inversion occurs when

- A) high levels of sunshine burn off a fog.
- B) regions experience high winds and intense sunshine.
- C) the air near the ground is cooler than the air directly above it.
- D) the air near the ground is warmer than the air at higher altitudes.

Answer: <https://biology-forums.com/index.php?topic=256764>

Question 1122

The main problem with constructing new landfills in the United States is that

- A) nobody wants one built near them.
- B) the cost of building a new landfill is too expensive.
- C) the costs of running a new landfill are too expensive.
- D) once a region has a landfill, it cannot be used for anything else.

Answer: <https://biology-forums.com/index.php?topic=257101>

Question 1123

Kudzu vine, chestnut blight, fire ants, and Japanese beetles are all examples of

- A) asexually reproducing species.
- B) invasive species.
- C) species that evolved because of recent geographic isolation.
- D) species that evolved on the Galápagos Islands.

Answer: <https://biology-forums.com/index.php?topic=258306>

Question 1124

Because of biomagnification, the most toxic organisms in any ecosystem will be the

- A) producers.
- B) primary consumers.
- C) secondary consumers.
- D) soils.

Answer: <https://biology-forums.com/index.php?topic=259079>

Question 1125

Which of the following is associated with an increase in the number of abortions?

- A) increased use of emergency contraception
- B) reduced financial support of family planning clinics
- C) widespread availability of condoms and birth control pills
- D) availability of Plan B or Preven as over the counter drugs

Answer: <https://biology-forums.com/index.php?topic=258765>

Question 1126

Wood pellets are produced from the waste sawdust of lumber and paper mills. Home-heating stoves burning these pellets can heat homes directly, instead of relying on other energy sources. Heating your home with wood pellets is

- A) sustainable, less polluting, and more efficient than heating a home using electricity from a coal-fired power plant.
- B) sustainable, much more polluting, and is about 30% more efficient than using electricity from a coal-fired power plant.
- C) not sustainable but is less polluting and is about as efficient as using electricity from a coal-fired power plant.
- D) not sustainable and actually pollutes more than using electricity from a coal-fired power plant.

Answer: <https://biology-forums.com/index.php?topic=259155>

Question 1127

A gardener applied heavy doses of the same insecticide to her garden for two consecutive years to kill squash bugs. During the third year, although the squash bugs were reduced, the woman called in an expert to explain why she had an abundance of new pests that were destroying her garden. The expert explained that the abundant new pests were largely due to her previous use of an insecticide in a phenomenon known as

- A) pesticide resistance.
- B) secondary-pest outbreak.
- C) triennial pest emergence.
- D) bounce back resurgence.

Answer: <https://biology-forums.com/index.php?topic=259062>

Question 1128

Based upon the history of oil prices, the best time to own a very fuel efficient automobile

- A) was before 1973.
- B) was in the 1990s.
- C) was in 2009.
- D) is now.

Answer: <https://biology-forums.com/index.php?topic=259183>

Question 1129

Between 1960 and 2010, how has recycling changed in the U.S.? The total amount of recycled MSW has

- A) actually declined by about 10%, a very disappointing trend.
- B) stayed about the same, as the cost of natural resources had declined.
- C) actually doubled, representing significant improvement.
- D) increased by more than 500%, representing a huge improvement.

Answer: <https://biology-forums.com/index.php?topic=257161>

Question 1130

Since 1800, the human population has increased

- A) two times.
- B) twenty times.
- C) ten times.
- D) six times.

Answer: <https://biology-forums.com/index.php?topic=256451>

Question 1131

Examine the relationships between poverty, environmental degradation, and fertility. We would expect that increased industrialization and development would affect the poverty cycle by

- A) increasing available resources permitting larger family sizes.
- B) decreasing the use of natural resources.
- C) increasing the demand for food.
- D) increasing the use of contraceptives.

Answer: <https://biology-forums.com/index.php?topic=258713>

Question 1132

Saltwater intrusion occurs

- A) in coastal regions where the water table remains high.
- B) in coastal regions where the water table is falling.
- C) when surface water seeps into groundwater.
- D) when flooding occurs in large areas of surface water.

Answer: <https://biology-forums.com/index.php?topic=258831>

Question 1133

What event occurred in 1986 that caused a general public shift in interest in nuclear energy?

- A) earthquakes impacting Japan's nuclear power plants
- B) the Chernobyl nuclear accident
- C) Global climate change due to burning fossil fuels was first well documented.
- D) Solar and wind technologies were revealed that could replace nuclear technologies.

Answer: <https://biology-forums.com/index.php?topic=259232>

Question 1134

For most of human history, and in developing countries today, the major source of energy has been

- A) natural gas.
- B) oil.
- C) wind.
- D) muscle power.

Answer: <https://biology-forums.com/index.php?topic=259133>

Question 1135

Suffering the impact of swarms of locusts, a farmer uses an airplane to spray an insecticide over 1,500 acres of his corn field. This farmer is trying to address this pest problem by using

- A) a chemical treatment.
- B) an agricultural treatment.
- C) an ecological control.
- D) integrated pest management.

Answer: <https://biology-forums.com/index.php?topic=259047>

Question 1136

The most costly aspect of photovoltaic technology is being addressed by

- A) inventing a way to convert alternating current to direct current.
- B) inventing a way to convert direct current to alternating current.
- C) finding a way to reduce the damaging effects of the sun on solar panels.
- D) new technologies that reduce the cost of manufacturing solar cells.

Answer: <https://biology-forums.com/index.php?topic=259337>

Question 1137

The effectiveness of DDT in agriculture allowed growers to

- A) raise less resistant but more productive crops.
- B) raise crops through the winter months.
- C) raise vegetables without the need for pollinators.
- D) eliminate irrigation in fields where it had been used previously.

Answer: <https://biology-forums.com/index.php?topic=259054>

Question 1138

Ethanol production in the United States

- A) is likely to decline soon as the price for corn as food increases.
- B) accounts for only 5% of the U.S. crop.
- C) will likely increase, making less corn available to people and livestock as food.
- D) has not contributed to rises in corn prices.

Answer: <https://biology-forums.com/index.php?topic=258980>

Question 1139

Better sanitation and nutrition generally resulted from the

- A) Industrial Revolution.
- B) Medical Revolution.
- C) Green Revolution.
- D) Environmental Revolution.

Answer: <https://biology-forums.com/index.php?topic=258621>

Question 1140

The greatest demand for electricity would occur in homes in Georgia

- A) about noon during a hot summer Wednesday.
- B) at night during a hot summer Saturday.
- C) about noon during a cold winter Wednesday.
- D) at night during a cold winter Saturday.

Answer: <https://biology-forums.com/index.php?topic=259150>

Question 1141

Countries that have completed or nearly completed the demographic transition experienced

- A) the epidemiological transition and industrialization over 100 years ago.
- B) the epidemiological transition and industrialization within the last decade.
- C) a resource and technology transition that gave rise to the green revolution.
- D) a political and sociological transition that gave rise to increased rural lifestyles.

Answer: <https://biology-forums.com/index.php?topic=258694>

Question 1142

A growing cooperative approach to manage larger ecosystems is building on the combined efforts of

- A) national, state, and local government agencies.
- B) government agencies, environmental groups, and private individuals.
- C) men, women, and children.
- D) governments and private businesses.

Answer: <https://biology-forums.com/index.php?topic=258593>

Question 1143

You sit comfortably in your room studying and notice that the air temperature is fluctuating considerably. Perhaps the air conditioning system is not well regulated. Sometimes it gets too hot and you sweat while other times you get so cold that you shiver. When you are sweating or shivering, you are exhibiting your

- A) limits of tolerance.
- B) temperature optima.
- C) resource range.
- D) abiotic independence.

Answer: <https://biology-forums.com/index.php?topic=258160>

Question 1144

If global climate change causes rain and temperature patterns to shift dramatically in a region,

- A) plate tectonic action may dramatically change.
- B) ocean levels could suddenly drop.
- C) the region's biomes may shift to other types.
- D) the region's biodiversity may suddenly increase.

Answer: <https://biology-forums.com/index.php?topic=256592>

Question 1145

According to the CDC, approximately what fraction of Americans will die or become disabled because of smoking cigarettes?

- A) 4 in 10
- B) 3 in 10
- C) 2 in 10
- D) 1 in 10

Answer: <https://biology-forums.com/index.php?topic=256474>

Question 1146

Which of the following products contains the greatest number of carcinogens?

- A) a thick vanilla milkshake
- B) a Twinkie snack
- C) chewing tobacco
- D) tap water from most cities in the United States

Answer: <https://biology-forums.com/index.php?topic=256459>

Question 1147

A small city's sewage-treatment plant orders a 55-gallon drum of isopropyl alcohol to be used to prepare cleaning products. However, when the drum arrives, it contains methyl alcohol, which they cannot use. The manager says to reorder and get the correct alcohol. The workers wonder what to do with the unusable 55 gallons of methyl alcohol that arrived by mistake. Someone suggests just dumping it into the nearby stream. Another worker disagrees, noting that to legally dispose of the 55 gallons of methyl alcohol, they need to

- A) dump the alcohol into their sewage treatment tanks, which then drain into the stream.
- B) mix the alcohol with gasoline to make it safer, and then dump it into the stream.
- C) get a discharge permit to allow them to dump it into the stream.
- D) flush the alcohol into the stream using thousands of gallons of water to dilute it.

Answer: <https://biology-forums.com/index.php?topic=257319>

Question 1148

The dense traffic and wide highways illustrated in this photograph are the result of

- A) state sales taxes diverted from city services.
- B) federal income taxes which are higher in urban areas.
- C) the Highway Trust Fund's gasoline tax revenue.
- D) the Department of Urban Renewal.

Answer: <https://biology-forums.com/index.php?topic=257397>

Question 1149

As you continue driving, your friend notes that he grew up in this region and nothing has really changed. Then, most surprisingly, he mentions that

- A) he has never ridden in a taxi or on been on a train.
- B) every day his parents commute about 40 minutes each way to work.
- C) he has never had a car and always got around using public transportation.
- D) his family typically drove about 20-30 minutes every time they went out to dinner.

Answer: <https://biology-forums.com/index.php?topic=257413>

Question 1150

The very deep roots of many prairie plants that have decomposed over thousands of years have contributed to the high fertility of the

- A) C horizon of alfisols.
- B) A horizon of molisols.
- C) B horizon of aridisols.
- D) C horizon of molisols.

Answer: <https://biology-forums.com/index.php?topic=258883>

Question 1151

When completed, the Comprehensive Everglades Restoration Plan will

- A) restore much of the region to sugar cane production.
- B) redirect much of the water flow southward.
- C) increase the amount of water available for crop irrigation.
- D) increase the flow of water through the Everglades in the summer.

Answer: <https://biology-forums.com/index.php?topic=258552>

Question 1152

How are developing countries likely affected by the most recent global economic crisis?

- A) Developed countries may increase aid to developing countries.
- B) Developing countries will likely increase exports.
- C) Developing countries may experience decreasing GNI.
- D) Developed countries may reduce barriers to trade with developing countries.

Answer: <https://biology-forums.com/index.php?topic=258737>

Question 1153

Biogas is mostly produced in landfills

- A) by the anaerobic decomposition of organic materials.
- B) by the release of compressed gases from aerosol containers.
- C) by the evaporation of the liquids draining from the buried waste.
- D) when solid materials melt into fluids and evaporate.

Answer: <https://biology-forums.com/index.php?topic=257082>

Question 1154

Which of the following farming practices were recommended to mitigate the dead zone in the Gulf of Mexico just west of the Mississippi River?

- A) increased use of no-till farming (nitrogen retention) and decreased fertilizer use
- B) increased use of ammonia as a fertilizer
- C) crop rotation between soybeans and corn
- D) switching from raising corn to raising cattle

Answer: <https://biology-forums.com/index.php?topic=256896>

Question 1155

Invasive species are dangerous because

- A) they are almost all predators, disturbing ecological relationships by eating other species.
- B) they carry viruses that spread disease in new ecosystems.
- C) the native species have not evolved and adapted to these organisms.
- D) they tend to be secretive, going unnoticed in their new ecosystems.

Answer: <https://biology-forums.com/index.php?topic=258310>

Question 1156

In general, the release of toxic chemicals to the environment over the past 30 years has

- A) increased dramatically in the United States, doubling about every ten years as the U.S. population has increased.
- B) increased slightly in the United States, about 10% per decade, as the U.S. population has increased.
- C) remained steady in the world, despite increases in the world's population.
- D) greatly declined, by more than 50%, despite increases in the world's population.

Answer: <https://biology-forums.com/index.php?topic=257241>

Question 1157

In 2012, a major driving force increasing the development and use of renewable-energy is

- A) the ability to capture the energy of the wind, sun, and water.
- B) concerns about climate change and costs that are now competitive with fossil fuels.
- C) increased solar radiation and wind velocities over the past decade.
- D) the ease with which solar and wind energies can be tapped in every region of the earth.

Answer: <https://biology-forums.com/index.php?topic=259307>

Question 1158

The widespread poisoning of the nervous systems of people living in the fishing village of Minamata, Japan, in the mid-1950s revealed the toxic consequences of environmental pollution by

- A) lead.
- B) mercury.
- C) PERC.
- D) halogenated hydrocarbon pesticides.

Answer: <https://biology-forums.com/index.php?topic=257263>

Question 1159

Buses and cars using fuel cells are

- A) not yet possible because the technology to safely store hydrogen is still not resolved.
- B) not yet available because the fuel cell generates unsafe levels of heat.
- C) still inefficient, largely because the fuel cells are large and heavy.
- D) already in use and ready for commercial production.

Answer: <https://biology-forums.com/index.php?topic=259378>

Question 1160

The benefit to cost ratio of replacing chlorofluorocarbons in new cars turned out to be

- A) higher than predicted.
- B) lower than predicted.
- C) about what was predicted.
- D) unpredictable because of fluctuating costs of the replacement gases.

Answer: <https://biology-forums.com/index.php?topic=258122>

Question 1161

About 10% of a large forest experienced a severe fire that burned all but the largest trees. Soon after the fire, the landowner consulted biologists to ask what should be done to the burned region. The biologists explained that if the landowner does nothing,

- A) rainfall will likely lead to a severe erosion problem.
- B) the same region will soon be expected to catch on fire again.
- C) the region will naturally recover and eventually become forest again.
- D) the opening will likely be repopulated with invasive species, not native to the region.

Answer: <https://biology-forums.com/index.php?topic=258375>

Question 1162

In a food chain, biomagnification is the result of

- A) bioaccumulation up the trophic levels.
- B) bioaccumulation down the trophic levels.
- C) higher levels of toxins than in the organisms living in that region.
- D) the elimination of toxic wastes from the body.

Answer: <https://biology-forums.com/index.php?topic=259076>

Question 1163

The Obama administration's commission on nuclear power waste disposal recommended

- A) the process of site selection should be kept secret from the public.
- B) a private for-profit corporation should be engaged to choose and construct the facility.
- C) that the sites should be spread over dozens of freshwater lakes in the northern United States.
- D) there is an immediate need to develop temporary geological storage sites until a permanent one is located.

Answer: <https://biology-forums.com/index.php?topic=259271>

Question 1164

Why is the green line lower in Latin America than it is in Sub-Saharan Africa?

- A) Latin American communities have better use of modern medicine.
- B) Communities in Sub-Saharan Africa have not undergone a Neolithic revolution.
- C) Fertility rates are higher in Latin American communities.
- D) Sub-Saharan communities are generally more urban than communities in Latin America.

Answer: <https://biology-forums.com/index.php?topic=258701>

Question 1165

The separate feeding locations of these five warbler species on different portions of the same tree illustrates

- A) biotic transformation.
- B) competitive exclusion.
- C) resource partitioning.
- D) top-down population regulation.

Answer: <https://biology-forums.com/index.php?topic=258280>

Question 1166

A disproportionately high placement of toxic waste sites in regions of the United States populated by minorities presents an issue of

- A) urban "smart growth."
- B) environmental racism.

- C) sustainable development.
- D) a demographic transition.

Answer: <https://biology-forums.com/index.php?topic=258043>

Question 1167

Many ecosystems are damaged by attempts to make a quick profit because

- A) natural services are valued more than natural goods.
- B) ecosystem services require sustained human development.
- C) the value of ecosystem services is underappreciated.
- D) the prices of most natural goods continue to fall.

Answer: <https://biology-forums.com/index.php?topic=258519>

Question 1168

Technology illustrated in this figure represents

- A) a flat-plate solar collector that may be used in active or passive solar heating.
- B) a flat-plate solar collector used only in active solar heating.
- C) a flat-plate solar collector used only in passive solar heating.
- D) a solar space heater used to heat the air in a building.

Answer: <https://biology-forums.com/index.php?topic=259328>

Question 1169

Which one of the following has a net negative forcing effect on global climate?

- A) ozone in the troposphere
- B) industrial sulfate aerosols
- C) carbon dioxide in the troposphere
- D) low clouds in the troposphere

Answer: <https://biology-forums.com/index.php?topic=256641>

Question 1170

Although considerable variation exists around the world, globally the percent of fossil fuels that are used for the primary energy supply is more than

- A) 85%
- B) 60%
- C) 50%
- D) 35%

Answer: <https://biology-forums.com/index.php?topic=259141>

Question 1171

Flea beetles alone are unlikely to eliminate all of the leafy spurge in a region. Instead, the number of leafy spurge plants and the number of flea beetles in a particular community may stabilize. At this point, the leafy spurge and flea beetle populations

- A) have exhibited exponential growth followed by a crash.
- B) have experienced constant growth.
- C) are still experiencing exponential growth.
- D) are experiencing environmental resistance.

Answer: <https://biology-forums.com/index.php?topic=258238>

Question 1172

The best way to describe the growth of global wind energy over the past 15 years is

- A) static.
- B) declining.
- C) exponential.
- D) linear.

Answer: <https://biology-forums.com/index.php?topic=259358>

Question 1173

Which of the following represents a type of top-down regulation for wildflowers living in a forest?

- A) types of minerals in the soil
- B) amount and timing of precipitation
- C) strength and frequency of sunlight
- D) herbivores in the region

Answer: <https://biology-forums.com/index.php?topic=258255>

Question 1174

Which one of the following problems is the result of invasive species?

- A) the infection of wild mammals by human pathogens
- B) deformities in frogs from natural frog populations
- C) the depletion of oxygen from thousands of square miles of ocean in the Gulf of Mexico
- D) the infection of European squirrels with a fatal virus

Answer: <https://biology-forums.com/index.php?topic=258480>

Question 1175

Which one of the following is true? The population profile of

- A) Sweden in the year 2050 looks like a column.
- B) Indonesia is widest in the middle, narrowing at the top and bottom.
- C) Burkina Faso, like most developing countries, is shaped like a pyramid, widest at the base.
- D) All of the above are true.

Answer: <https://biology-forums.com/index.php?topic=258680>

Question 1176

In general, biomes at higher latitudes are most like

- A) biomes at higher altitudes.
- B) aquatic biomes.
- C) biomes at lower altitudes.
- D) biomes at lower latitudes.

Answer: <https://biology-forums.com/index.php?topic=258350>

Question 1177

In this figure, the width of each bar includes a measure of the

- A) total fertility of the age group.
- B) age of first reproduction of the age group.
- C) mortality within the age group.
- D) size of the family of women of reproductive age.

Answer: <https://biology-forums.com/index.php?topic=258667>

Question 1178

More than any other energy source, China and the United States use

- A) coal to generate electricity.
- B) water power to generate electricity.
- C) nuclear plants to generate electricity.
- D) natural gas to generate electricity.

Answer: <https://biology-forums.com/index.php?topic=259205>

Question 1179

Which of the following countries has the lowest percentages of people struggling to afford adequate food, shelter, and clothing?

- A) Australia
- B) Mexico
- C) India
- D) China

Answer: <https://biology-forums.com/index.php?topic=258640>

Question 1180

Which one of the following hazardous-waste disposal methods is safest with regard to ground/drinking water pollution and involvement in ecosystem food chains?

- A) a secure landfill
- B) a deep-well injection
- C) an on-site surface impoundment
- D) a best-demonstrated available technology

Answer: <https://biology-forums.com/index.php?topic=257281>

Question 1181

Current ethanol production as a fuel does not significantly reduce greenhouse gas emissions because

- A) of the amount of fossil fuels required to produce the corn used in the process.
- B) the process of fermentation produces a tremendous amount of carbon dioxide.
- C) the process of fermentation produces a tremendous amount of methane.
- D) burning ethanol or gasoline contributes the same net amount of carbon dioxide in the atmosphere.

Answer: <https://biology-forums.com/index.php?topic=259369>

Question 1182

Name the two most recent of the revolutions affecting the global human population.

- A) Green Revolution and Environmental Revolution
- B) Neolithic Revolution and Industrial Revolution
- C) Medical Revolution and Neolithic Revolution
- D) Medical Revolution and Green Revolution

Answer: <https://biology-forums.com/index.php?topic=258630>

Question 1183

How does the EPA affect environmental policy?

- A) The EPA passes laws that control environmental regulations.
- B) The EPA develops rules and regulations based on laws passed by Congress.
- C) The EPA determines which laws passed by the Judicial Branch apply to environmental policy.
- D) The EPA funds ecological studies that inform the executive branch about what environmental laws are needed.

Answer: <https://biology-forums.com/index.php?topic=258105>

Question 1184

A loss-of-accident (LOCA), as in the Fukushima Daiichi plant

- A) will result in a nuclear explosion, like a nuclear bomb, if not quickly corrected.
- B) is not a safety hazard because the nuclear reactions in core are automatically shut down.
- C) if not corrected could result in a meltdown of fuel rods leading to a steam explosion.
- D) may cause a meltdown but never a release of radiation into the environment.

Answer: <https://biology-forums.com/index.php?topic=259252>

Question 1185

Which one of the following best illustrates a nonpoint source of pollution?

- A) oil leaking into the ocean from an oil rig
- B) wastewater from a coal-fired power plant
- C) storm-water drainage from the parking lot around a football stadium
- D) raw sewage released into a river when storm-water overflows a city's sewage treatment facility

Answer: <https://biology-forums.com/index.php?topic=256917>

Question 1186

The dust storm in Arizona in 2011

- A) originated in Mexico and moved north into Arizona.
- B) occurred during a period of unusually heavy rainfall.
- C) was the result of loss of soil microorganisms.
- D) was triggered by drought conditions similar to those of the 1930s Dust Bowl.

Answer: <https://biology-forums.com/index.php?topic=258869>

Question 1187

The decision of the Bangladeshi government to identify and protect dolphin hot spots

- A) will protect some prime habitat as a preserve for Ganges and Indus river dolphins.
- B) will be easy because the area has very low numbers of people.
- C) is now unnecessary because both species have been declared extinct.
- D) is being opposed by the United Nations Commission on Biodiversity.

Answer: <https://biology-forums.com/index.php?topic=258402>

Question 1188

Biomes are primarily identified by their

- A) precipitation patterns and soil types.
- B) temperature patterns and community structure.
- C) soil types and community structure.

D) precipitation and temperature patterns.

Answer: <https://biology-forums.com/index.php?topic=256590>

Question 1189

The conditions represented in this figure illustrate

- A) a temperature inversion.
- B) stratospheric smog.
- C) the greenhouse effect.
- D) how high levels of ozone affect climate near the ground.

Answer: <https://biology-forums.com/index.php?topic=256770>

Question 1190

Which one of the following principles of smart-growth will most likely result in more wildlife habitat and scenic beauty within established suburban neighborhoods?

- A) have states purchase open spaces which are preserved from urban development
- B) set physical boundaries on urban sprawl
- C) build new homes and stores on existing abandoned or brownfield urban properties
- D) promote the integration of homes, stores, light industry, and professional offices

Answer: <https://biology-forums.com/index.php?topic=257431>

Question 1191

Hydrothermal vent communities are unusual because

- A) a primary producer synthesizes organic matter.
- B) a producer exists without sunlight.
- C) a consumer eats a producer.
- D) there are no producers in the ecosystem.

Answer: <https://biology-forums.com/index.php?topic=258327>

Question 1192

Agricultural pollution in the Everglades Restoration Plan will be controlled by

- A) eliminating sugar cane farming.
- B) banning the use of chemical fertilizers.
- C) directing agricultural runoff into the Caloosahatchee river and then to the Gulf of Mexico.
- D) using manmade wetlands to remove agricultural nutrients before they enter the Everglades sheet flow.

Answer: <https://biology-forums.com/index.php?topic=258606>

Question 1193

A woman has a large garden and decides this year she will not let the pests get beyond control. At the earliest sign of insect pests, she applies an organic insecticide and continues to apply it every month throughout the growing season. The next year the woman decides not to use any insecticides, thinking that she must have eliminated the pests with the prior year's treatments. Unfortunately, the pests reappear in numbers greater than she has ever seen before, and her crops are destroyed. Investigating this phenomenon, she learns that she has just experienced a phenomenon known as

- A) resurgence.
- B) pesticide resistance.
- C) natural selection.
- D) emergence.

Answer: <https://biology-forums.com/index.php?topic=259063>

Question 1194

Which of the following is true?

- A) Waste in water use and food production cancel each other out.
- B) Bottled water is cheaper than trying to move water by pumping it long distances.
- C) Conservation of water resources, energy and food production and distribution are linked.
- D) The water needed to grow vegetables and grains is much greater than to produce beef.

Answer: <https://biology-forums.com/index.php?topic=258860>

Question 1195

Which of the following is true?

- A) Only about 10% of the world's food comes from land-based agriculture.
- B) Soil degradation is a problem unique to the past two centuries.

- C) More than 20% of cultivated land was degraded between 1989 and 2003.
D) The Mayan Empire serves as a model for excellent soil management.

Answer: <https://biology-forums.com/index.php?topic=258870>

Question 1196

- Increasing levels of greenhouse gases have caused a
A) rise in ocean temperatures but a decrease in ocean pH.
B) rise in ocean temperatures and an increase in ocean pH.
C) decrease in ocean temperatures and a decrease in ocean pH.
D) decrease in ocean temperatures but an increase in ocean pH.

Answer: <https://biology-forums.com/index.php?topic=256650>

Question 1197

Japanese knotweed

- A) began as an invasive exotic but has become an excellent forage plant for cattle.
B) was originally imported as an attractive horticultural species but has become invasive in North America and Europe.
C) was named the official flower of the 2012 Olympics in England.
D) is invasive, but fortunately can only propagate by seeds.

Answer: <https://biology-forums.com/index.php?topic=258479>

Question 1198

In a forest, deer, raccoons, squirrels, and other animals eat and find shelter. A detrital food web occurs as their wastes accumulate on the forest floor.

In this detrital web,

- A) deer and raccoons function as the producers.
B) fungi and earthworms function as producers.
C) decomposers function as consumers.
D) the deer and raccoons represent decomposers.

Answer: <https://biology-forums.com/index.php?topic=258334>

Question 1199

A lawn based on the principle of xeriscaping

- A) uses at least twice as much water as necessary.
B) uses species that require no water other than natural precipitation.
C) gets its water from redirected urban runoff.
D) includes agricultural crop species.

Answer: <https://biology-forums.com/index.php?topic=258859>

Question 1200

The sick tomato plant in this figure is devastated by tomato wilt, a type of fungus that infects the soil with spores and returns every year to attack more tomato plants. One effective way to combat this fungus using ecological/cultural pest control is to

- A) keep dead tomato plants from the prior year around to try to divert the fungus to the dead plants.
B) spray a broad-spectrum insecticide over your garden before and after the crops come up.
C) plant something other than tomatoes in this part of the garden next year.
D) rake the soil before planting next year's tomatoes.

Answer: <https://biology-forums.com/index.php?topic=259105>

Question 1201

If the Millennium Development goal to eradicate extreme poverty and hunger by 2015 is achieved,

- A) almost a billion people will still live in extreme poverty.
B) no continent will have more than 10,000 people still hungry.
C) fertility rates will decline to those of most European nations.
D) the rural population of the world will nearly double.

Answer: <https://biology-forums.com/index.php?topic=258724>

Question 1202

This figure is one way that the United Nations can assess progress made in the battle against

- A) hunger.
B) distribution of food.
C) the underproduction of food.
D) global climate change.

Answer: <https://biology-forums.com/index.php?topic=259024>

Question 1203

Industrial pollution from this oil refinery best represents a type of

- A) biological environmental hazard.
- B) cultural environmental hazard.
- C) physical environmental hazard.
- D) chemical environmental hazard.

Answer: <https://biology-forums.com/index.php?topic=256462>

Question 1204

Natural gas

- A) used in automobiles produces more pollutants than gasoline.
- B) when burned in automobiles, produces only water and no carbon dioxide or other pollutants.
- C) reserves in the United States may last many decades, even with increased demand.
- D) consumption in the United States is declining as available resources decline.

Answer: <https://biology-forums.com/index.php?topic=259200>

Question 1205

The general pattern in this figure reveals increasing levels of carbon dioxide in the atmosphere over the past fifty years. Why is the red line wavy and the blue line steadily increasing?

- A) The red line drops in the winter when photosynthesis decreases.
- B) The red line increases in the summer when people are more likely to run their air conditioners.
- C) The blue line reflects changes in temperature while the red line represents changes in carbon dioxide levels.
- D) The red line reflects changes in the ocean levels that occur when carbon dioxide levels are higher.

Answer: <https://biology-forums.com/index.php?topic=256609>

Question 1206

When Terrance helps gather signatures for petitions to add bottle laws to Illinois, he is not paid. Instead, his actions represent efforts for

- A) personal gain.
- B) the common good.
- C) building trust.
- D) social justice.

Answer: <https://biology-forums.com/index.php?topic=257496>

Question 1207

India's improvements in food production and health care have

- A) brought India the levels of development equal to most industrialized countries.
- B) been offset by tremendous growth in population size.
- C) resulted in literacy rates above 80% for women.
- D) resulted in most people employed in high-tech jobs in the cities.

Answer: <https://biology-forums.com/index.php?topic=258742>

Question 1208

Which of the following is true today?

- A) environmental policy debates are always politically divisive
- B) deregulation efforts typically leads toward more effective policy
- C) national elections rarely influence environmental policy
- D) environmental policy springs mostly from science and not election results

Answer: <https://biology-forums.com/index.php?topic=258008>

Question 1209

The concept of ecosystem capital is most likely appreciated by

- A) a shrimp farmer in Thailand.
- B) a lumber company in Canada.
- C) a marine biologist in Florida.
- D) owners of a banana farm in Brazil.

Answer: <https://biology-forums.com/index.php?topic=258521>

Question 1210

A single ecosystem will include

- A) an interactive complex of communities but not the abiotic environment.
- B) the abiotic environment but not an interactive complex of communities.
- C) many species of living organisms and may include humans.
- D) either a plant community or an animal community, but not both.

Answer: <https://biology-forums.com/index.php?topic=258148>

Question 1211

Most analyses of world oil reserves and current demands indicate that short of some amazing new oil field discoveries, maximum global production of oil

- A) peaked in the 1970s.
- B) peaked in 1998.
- C) is peaking right now.
- D) will peak in the next 10-15 years.

Answer: <https://biology-forums.com/index.php?topic=259190>

Question 1212

All reasonable projections for world population in 2050

- A) assume a rising fertility rate.
- B) reflect projections of fertility but not mortality.
- C) conclude that the population will be higher than today.
- D) include estimates of migration patterns.

Answer: <https://biology-forums.com/index.php?topic=258675>

Question 1213

Which one of the following is the most inclusive level of classification?

- A) class
- B) phylum
- C) order
- D) family

Answer: <https://biology-forums.com/index.php?topic=258139>

Question 1214

Under the 2009 Tobacco Control Act, the FDA

- A) cannot regulate tobacco in any way.
- B) can regulate cigarettes as a drug.
- C) can only regulate the way that cigarettes are packaged.
- D) can investigate the health effects of cigarettes but not regulate how they are manufactured and sold.

Answer: <https://biology-forums.com/index.php?topic=256482>

Question 1215

Judging from the data in the figure, if we wanted to decrease petroleum consumption and concentrate on more efficient technology, the sector we would select is

- A) residential.
- B) commercial.
- C) industrial.
- D) transportation.

Answer: <https://biology-forums.com/index.php?topic=259161>

Question 1216

Overgrazing by cattle primarily contributes to desertification by

- A) promoting erosion and loss of rooted plant cover.
- B) contaminating streams with cattle wastes.
- C) cattle outcompeting natural herbivores.
- D) spreading the growth of non-native species.

Answer: <https://biology-forums.com/index.php?topic=258939>

Question 1217

Sustainable populations

- A) are often near their carrying capacity.
- B) have exceeded their biotic potential.
- C) have grown beyond all types of environmental resistance.
- D) are characterized by high emigration and low recruitment.

Answer: <https://biology-forums.com/index.php?topic=258240>

Question 1218

Although refrigeration, fertilizers, modern shipping, CAFOs and Green Revolution high-yield crops have some limits or negative impacts, all have contributed to

- A) lowering the cost of food.
- B) sustainable farming.
- C) rapid population growth in developed nations.
- D) making food more widely available.

Answer: <https://biology-forums.com/index.php?topic=259002>

Question 1219

The oxygen released from photosynthesis came from

- A) the water used in photosynthesis.
- B) the carbon dioxide used in photosynthesis.
- C) oxygen in the air.
- D) glucose.

Answer: <https://biology-forums.com/index.php?topic=258209>

Question 1220

If glyphosate-resistant weeds become widespread in the future, we can expect farmers to

- A) kill these weeds by applying more glyphosate to their fields.
- B) switch to a pesticide that is more effective for this problem.
- C) return to traditional tillage, leading to increased soil erosion.
- D) switch to raising these "weeds" as a new type of crop.

Answer: <https://biology-forums.com/index.php?topic=259059>

Question 1221

CHP conserves energy in industrial buildings by

- A) charging batteries when power demand drops.
- B) drawing on the heat of the earth to make electricity.
- C) installing solar panels on the top of power plants.
- D) using the waste heat generated to warm buildings.

Answer: <https://biology-forums.com/index.php?topic=259220>

Question 1222

As of 2012, the fastest growing component of street and beach litter in the United States is

- A) aluminum cans.
- B) plastic water bottles.
- C) vegetation waste from yards and businesses.
- D) sheetrock, lumber scraps and other construction site waste.

Answer: <https://biology-forums.com/index.php?topic=257179>

Question 1223

Energy transfer between trophic levels in aquatic systems is generally

- A) less efficient than terrestrial food pyramids.
- B) less efficient than a detritus food web because aquatic systems lack fungi.
- C) inverted, in which more energy is transferred from one trophic level up to the next.
- D) more efficient than terrestrial food pyramids.

Answer: <https://biology-forums.com/index.php?topic=258348>

Question 1224

Food safety issues of transgenic crops include

- A) a decreased production of allergens in crops.
- B) the promotion of antibiotic resistance in pathogens.
- C) the ability to immunize people against pathogens by eating foods.
- D) the development of herbicide resistance in humans.

Answer: <https://biology-forums.com/index.php?topic=258993>

Question 1225

Greater involvement by the federal government in the management of MSW disposal started with the Resource and Conservation and Recovery Act about

- A) 35 years ago and is currently the responsibility of the EPA.
- B) 100 years ago and has been under the authority of the FDA.
- C) 15 years ago and is largely supervised by the Department of Agriculture.
- D) 60 years ago and is controlled by the Bureau of Land Management.

Answer: <https://biology-forums.com/index.php?topic=257187>

Question 1226

As the population and economy has grown since 1990 in the United States, the weight per person of MSW produced has

- A) declined sharply.
- B) increased sharply.
- C) stayed about the same.
- D) declined in the 1990s but nearly doubled since the year 2000.

Answer: <https://biology-forums.com/index.php?topic=257140>

Question 1227

A grasshopper population in a prairie is limited in large part by the number of birds in the region. Following a terrible storm that killed many of the birds, the grasshopper population exhibits exponential growth. This happens because the grasshoppers experienced

- A) a new biotic potential with steady environmental resistance.
- B) a new much lower biotic potential with decreased environmental resistance.
- C) a steady biotic potential but suddenly decreased environmental resistance.
- D) a decreased biotic potential and decreased environmental resistance.

Answer: <https://biology-forums.com/index.php?topic=258250>

Question 1228

Projections of future world population do not typically include

- A) fertility.
- B) mortality.
- C) migration.
- D) fertility nor mortality.

Answer: <https://biology-forums.com/index.php?topic=258674>

Question 1229

In our world, something with the greatest heat capacity is able to

- A) evaporate the most water from its surface.
- B) retain its heat the longest.
- C) insulate the best.
- D) reflect the greatest amount of sunshine.

Answer: <https://biology-forums.com/index.php?topic=256622>

Question 1230

The ability to feed the growing world population was addressed by the

- A) Industrial Revolution.
- B) Medical Revolution.
- C) Green Revolution.
- D) Environmental Revolution.

Answer: <https://biology-forums.com/index.php?topic=258624>

Question 1231

You examine an ice core sample from 10,000 years ago when global temperatures were unusually high. Based upon past studies and insights from current GHG levels, we expect that atmospheric levels of carbon dioxide

- A) and methane were unusually low.
- B) and methane were unusually high.
- C) were high but methane levels were low.
- D) were low but methane levels were high.

Answer: <https://biology-forums.com/index.php?topic=256615>

Question 1232

Which one of the following principles of smart-growth will most likely result in an increase in the use of locally grown foods?

- A) provide several transportation choices
- B) set physical boundaries on urban sprawl and purchase and preserve open spaces
- C) build new homes and stores on existing abandoned or brownfield urban properties
- D) promote the integration of homes, stores, light industry, and professional offices

Answer: <https://biology-forums.com/index.php?topic=257433>

Question 1233

Economic growth in China has led to extensive air and water pollution because of

- A) the lack of government regulations addressing pollution.
- B) inadequately enforced environmental protection policies.
- C) the lack of concern from the general public.
- D) difficulties connecting environmental pollution to disease.

Answer: <https://biology-forums.com/index.php?topic=258053>

Question 1234

Which of the following ecosystems might be considered as a bank of biodiversity?

- A) boreal forests
- B) tropical forests
- C) large lakes, such as the Great Lakes in North America
- D) Antarctica

Answer: <https://biology-forums.com/index.php?topic=258434>

Question 1235

The steep increase in global carbon emissions since 1950, shown in the figure above, most closely parallels the

- A) rise in pH of the ocean over this same period.
- B) size of the polar ice caps over this same period.
- C) global surface temperatures over this same period.
- D) increases in the speed of the Atlantic Ocean conveyor system over this same period.

Answer: <https://biology-forums.com/index.php?topic=256681>

Question 1236

Which one of the following best illustrates a type of adaptation to global climate change?

- A) increasing the use of public transportation systems in cities
- B) building taller levees to hold back storm surges along ocean coastlines
- C) using solar and nuclear power to generate electricity instead of burning coal
- D) widening the Panama Canal to allow larger ships to move from China to Europe

Answer: <https://biology-forums.com/index.php?topic=256602>

Question 1237

Driving along a highway, you start noticing plants with tiny blue flowers. Several miles later, these flowers are very abundant. Then even further, the flowers become less abundant, until finally, you do not see them at all. The regions with just a few of these plants represented the plant's

- A) optimal range.
- B) zones of stress.
- C) resource reservoirs.
- D) optimal habitats.

Answer: <https://biology-forums.com/index.php?topic=258163>

Question 1238

A taxonomist would be most helpful in determining

- A) naming and classifying the number of insect species in a particular part of a rain forest.
- B) the best way to manage a population of endangered birds.
- C) how to increase the diversity of species in a national park.

D) the amount of fish that can be harvested annually to maintain sustainable populations.

Answer: <https://biology-forums.com/index.php?topic=258490>

Question 1239

The generation of electrical power

- A) consumes nearly 75% of the fossil fuels in the United States.
- B) has steadily declined over the last 20 years as energy efficient products have come on the market.
- C) depends upon a primary energy source such as coal or hydropower.
- D) consumes more than half of all the oil used annually by the United States.

Answer: <https://biology-forums.com/index.php?topic=259146>

Question 1240

International trade policies involving food have to make sure that

- A) developing nations are not undersold or discouraged from increasing their food productivity.
- B) developed nations make a significant profit on their international food sales.
- C) developing nations set the terms of trade agreements.
- D) only sustainably produced food enters the international market.

Answer: <https://biology-forums.com/index.php?topic=259016>

Question 1241

Desertification of North America's drylands is primarily the result of

- A) plowing for crop production.
- B) livestock grazing.
- C) fires and the use of modern irrigation systems.
- D) global climate change.

Answer: <https://biology-forums.com/index.php?topic=258938>

Question 1242

Detritus feeders and decomposers are most likely found in the

- A) E and B horizon.
- B) A and O horizon.
- C) B and C horizon.
- D) C and E horizon.

Answer: <https://biology-forums.com/index.php?topic=258881>

Question 1243

Deep-well injection of hazardous wastes has the advantage that

- A) it falls under the umbrella of the Superfund Cleanup (SARA).
- B) injected materials can easily be recovered for further treatment.
- C) solids, liquids and gases can be disposed with this technology.
- D) the deep-injected liquids should not contaminate ground water or surface ecosystems.

Answer: <https://biology-forums.com/index.php?topic=257274>

Question 1244

Power Tower and Solar Trough systems are both capable of

- A) storing and using heat when there is no sunlight for several hours.
- B) collecting sunlight even at night.
- C) using their photovoltaic cells to generate alternating or direct current.
- D) being used to generate electricity on modern passenger vehicles.

Answer: <https://biology-forums.com/index.php?topic=259341>

Question 1245

Large families in poor countries

- A) are rare, because having many children is expensive.
- B) are common, due largely because of low infant and childhood mortality.
- C) are common, in part because more children means more labor.
- D) is becoming more common as the use of modern agriculture increases.

Answer: <https://biology-forums.com/index.php?topic=258708>

Question 1246

Renewable energy resources

- A) currently supply 20% of the earth's electricity
- B) contribute only 70% as much greenhouse gases as fossil fuels
- C) have been largely ignored by the Obama administration
- D) are unsuitable for the economies of developing nations.

Answer: <https://biology-forums.com/index.php?topic=259308>

Question 1247

Synergistic effects involving pesticides occur when

- A) nonpersistent pesticides are transformed into persistent pesticides.
- B) pesticide toxicity interacts with other environmental or chemical factors to produce an unexpected outcome.
- C) one pesticide is used to control numerous different pests.
- D) beneficial insects or other wildlife become non-target casualties of pesticides.

Answer: <https://biology-forums.com/index.php?topic=259088>

Question 1248

Which of the following best illustrates a pollution prevention strategy?

- A) using bioremediation or phytoremediation to remove hydrocarbons spilled into soils
- B) increasing the mileage rates on automobiles
- C) chemically treating discharges from sewage treatment plants
- D) tracking the movements of toxic wastes

Answer: <https://biology-forums.com/index.php?topic=257354>

Question 1249

The best way to sustainably manage natural environments is to

- A) maintain the interactions between the members of the ecosystem.
- B) stop hunting animals and harvesting the fruits of the plants in the ecosystem.
- C) minimize the impact of natural disasters, such as fires and storms.
- D) carefully limit the growth of the major carnivores and herbivores in the ecosystem.

Answer: <https://biology-forums.com/index.php?topic=258404>

Question 1250

One general trend that is helping developing countries become self-sufficient in food is

- A) the increased production of biofuels.
- B) decreased reliance on fossil fuels in the production of food crops.
- C) the outsourcing of manufacturing jobs from the developed to the developing world.
- D) a dramatic increase in the importation of mineral ores.

Answer: <https://biology-forums.com/index.php?topic=259014>

Question 1251

In your laboratory, you open a jar of a chemical that is known to have a very low LD₅₀. Therefore, your concerns about the safe handling of this chemical are primarily about

- A) acute toxic effects.
- B) chronic effects.
- C) immediate health effects.
- D) radioactive exposure.

Answer: <https://biology-forums.com/index.php?topic=257221>

Question 1252

On land, the carbon used today in photosynthesis to form carbon atoms of plant tissues is mostly returned to the air because of

- A) respiration in plants, animals, and organisms in the soil.
- B) plate tectonics.
- C) additional photosynthesis in the same plants.
- D) erosion, decay, and general weathering.

Answer: <https://biology-forums.com/index.php?topic=258217>

Question 1253

Radioactive wastes consist of

- A) high-level direct products of fission.
- B) low-level indirect products of fission.
- C) high-level direct products of fission and low-level indirect products of fission.
- D) the direct and indirect products of fusion.

Answer: <https://biology-forums.com/index.php?topic=259254>

Question 1254

Which of the following is a clear advantage in the use of nuclear power instead of fossil fuels?

- A) Nuclear plants are cheaper to build than power plants that burn fossil fuels.
- B) Nuclear power can be used today to power most forms of public transportation.
- C) Nuclear power contributes less to global climate change.
- D) Nuclear power generates fewer wastes with lower health risks.

Answer: <https://biology-forums.com/index.php?topic=259298>

Question 1255

At the 2009 Copenhagen climate conference,

- A) more than 180 nations signed non-binding GHG reduction pledges.
- B) binding resolutions signed by all attending nations.
- C) timetables were agreed upon for GHG reductions.
- D) most nations boycotted the meetings under pressure from fossil fuel companies.

Answer: <https://biology-forums.com/index.php?topic=256724>

Question 1256

Bisphenol A (BPA), a common component of plastics in bottles and can liners

- A) mimics estrogen and can potentially cause disruption of human reproduction and development.
- B) causes mutations similar to those caused by UV light and X-rays.
- C) has been tested by the European Commission and found safe for human consumption.
- D) has been withdrawn from manufacture and use in the United States.

Answer: <https://biology-forums.com/index.php?topic=257215>

Question 1257

Organizations in the United States that are opposed to abortion would most likely reduce the greatest number of abortions in the world by

- A) protesting financial support to developing countries.
- B) distributing brochures against abortion to women in the developing world.
- C) pressuring the US government to only support developing countries that have anti-abortion policies.
- D) helping to finance family planning clinics in developing countries.

Answer: <https://biology-forums.com/index.php?topic=258764>

Question 1258

Developing a new form of ecological pest control, researchers engineer crops to produce the pheromones of the pest. The crops now produce the pest pheromone, overwhelming the fields and causing the male pests to fail to find a mate. This new form of ecological pest control combines

- A) natural enemies and cultural control.
- B) cultural and natural enemies control.
- C) genetic and cultural control.
- D) genetic and natural chemical control.

Answer: <https://biology-forums.com/index.php?topic=259092>

Question 1259

A declining dependency ratio

- A) requires immediate and permanent increased spending on education and old-age medical expenses.
- B) requires increased spending on education but decreased costs associated with old-age medical expenses.
- C) requires permanently decreased spending on education but temporarily increased costs associated with old-age medical expenses.
- D) permits temporarily decreased spending on education and old-age medical expenses.

Answer: <https://biology-forums.com/index.php?topic=258705>

Question 1260

Which one of the following energy sources can generate the greatest additional power without contributing significantly to global climate change?

- A) solar technologies
- B) hydroelectric power

- C) nuclear energy
- D) geothermal energy

Answer: <https://biology-forums.com/index.php?topic=259231>

Question 1261

The hazardous-waste disposal system illustrated in this figure represents

- A) a secure landfill.
- B) a deep-well injection.
- C) an on-site surface impoundment.
- D) a best-demonstrated available technology.

Answer: <https://biology-forums.com/index.php?topic=257277>

Question 1262

Lingering in a long line at the dry cleaners, waiting for holiday clothing, a woman starts to feel dizzy and tired with a quickly developing headache. Someone suggests that her symptoms might be from breathing something used in the shop. A substance that can cause such symptoms, and is commonly used in dry cleaning, is a

- A) heavy metal.
- B) halogenated hydrocarbon, PERC.
- C) radioactive hydrocarbon.
- D) safe and gentle natural compound.

Answer: <https://biology-forums.com/index.php?topic=257253>

Question 1263

A hydric soil is one that

- A) is typical of wetlands and may contain peat.
- B) is unusually well suited for agriculture.
- C) is typical of tropical areas that receive abundant rainfall.
- D) was typical of the U.S. prairie states until the Dust Bowl of the 1930s.

Answer: <https://biology-forums.com/index.php?topic=258886>

Question 1264

New genetic traits upon which natural selection can act usually arise from

- A) mutations and crossover.
- B) increases in cell size and shape.
- C) the need to become adapted to a new environment.
- D) the demands of the environment.

Answer: <https://biology-forums.com/index.php?topic=258292>

Question 1265

Bottle bills that help to recycle glass and aluminum illustrate

- A) sound science.
- B) stewardship.
- C) sustainability.
- D) sound science, stewardship, and sustainability.

Answer: <https://biology-forums.com/index.php?topic=257490>

Question 1266

In response to environmental problems, the Chinese government has

- A) increasingly relied upon local, non-governmental groups to monitor and respond.
- B) simply agreed that these are the costs associated with economic prosperity.
- C) insisted on centralized government control and removed power from local governments.
- D) refused to recognize any long-term problems associated with air and water pollution.

Answer: <https://biology-forums.com/index.php?topic=258056>

Question 1267

The two large tanks in this photo

- A) use manure, water, and anaerobic bacteria to produce biogas.
- B) use manure, water, and aerobic bacteria to produce biogas.
- C) burn unused parts of crop plants to generate heat for homes.
- D) collect and stores carbon dioxide in underground wells.

Answer: <https://biology-forums.com/index.php?topic=259364>

Question 1268

The inside of a car or greenhouse would not heat up as much in the presence of sunshine if

- A) air was circulated within the car or within the greenhouse.
- B) infrared radiation passed through glass as easily as sunlight.
- C) infrared radiation could not pass through glass as easily as sunlight.
- D) sunlight could pass through glass more easily than through air.

Answer: <https://biology-forums.com/index.php?topic=256635>

Question 1269

The best computer models of global climate change indicate that in the next 50 years

- A) all of the rainforests will be destroyed.
- B) growing seasons will get shorter.
- C) the world will warm up by 2-3°C.
- D) regions of drought will instead experience flooding.

Answer: <https://biology-forums.com/index.php?topic=256660>

Question 1270

Hard plastic bottles commonly used by hikers often contain the chemical

- A) BPA, which is a hormone mimic and may pose a health hazard.
- B) phenolphthalein, which has been clearly shown not to have significant health effects.
- C) PERC, which may result in minor skin rashes and other allergic reactions.
- D) PCBs, which may interfere with thyroid gland function.

Answer: <https://biology-forums.com/index.php?topic=257255>

Question 1271

The use of biochar (charcoal) incorporated into soil structure

- A) may be a way to lower atmospheric carbon levels because biochar decays very slowly.
- B) has been found to accelerate global climate change.
- C) contributes to soil fires which increases the rate of soil degradation.
- D) greatly decreases soil fertility.

Answer: <https://biology-forums.com/index.php?topic=258891>

Question 1272

Increased availability of contraceptives in very poor nations is unlikely to decrease family size because

- A) families depend upon children for labor and support when the parents become old.
- B) infant and childhood mortality rates are already keeping family size low.
- C) the increased use of industry and technology has already decreased family size.
- D) poor families are already small because parents cannot afford to feed and house more than one or two children.

Answer: <https://biology-forums.com/index.php?topic=258709>

Question 1273

At the Stockholm Convention of 2004,

- A) all attending nations signed a pledge to prohibit manufacture and use of BPA.
- B) several of the most toxic POPs were banned or restricted.
- C) funds were made available to clean up toxic chemical spills in developing nations.
- D) the European Union lifted its ban of BPA.

Answer: <https://biology-forums.com/index.php?topic=257259>

Question 1274

If a plowed farm field was restored to natural prairie, we would expect that

- A) flooding would be more common in the related watershed.
- B) more pollutants would flow into the watershed.
- C) erosion of the soil would decrease.
- D) less water would be retained in the groundwater reservoir.

Answer: <https://biology-forums.com/index.php?topic=258812>

Question 1275

The scientific peer-review process ensures that

- A) scientific studies have proper design and methods and are free from bias.
- B) all scientific studies receive publication despite the level of bias.
- C) the results of scientific studies are permanent and certain.
- D) all published scientific studies have clearly defined control groups.

Answer: <https://biology-forums.com/index.php?topic=258028>

Question 1276

Most reports of national erosion loss are based on

- A) thousands of measurements of soil depth around the country.
- B) measurements of the amount of soil suspended in the oceans and major rivers.
- C) changes in the salinity and silt of the ocean where major rivers flush out to sea.
- D) indirect measurements using maps, aerial photography, and precipitation data from land stations.

Answer: <https://biology-forums.com/index.php?topic=258936>

Question 1277

Which of the following would have most likely prevented the deadly 1948 smog in Donora, PA?

- A) shift industrial production from the day to evening hours
- B) add scrubbers to the smokestacks used by the Donora industries
- C) increase use of coal to generate electricity and heat homes in the region
- D) use high sulfur instead of low sulfur coal to generate electricity and heat homes

Answer: <https://biology-forums.com/index.php?topic=256730>

Question 1278

The city in this photograph illustrates a city that is

- A) car-centered.
- B) people-centered.
- C) industry centered.
- D) environmentally friendly.

Answer: <https://biology-forums.com/index.php?topic=257466>

Question 1279

Where there is rapid decomposition of plant matter, we expect to find soils that have

- A) a very thin O horizon.
- B) a tremendous capacity to hold water.
- C) a particularly thick C horizon.
- D) high fertility and a very thick B horizon.

Answer: <https://biology-forums.com/index.php?topic=258884>

Question 1280

Picric acid is always stored wet, often in glass bottles in water. If the crystals dry out, they can explode! Therefore, picric acid demonstrates high levels of

- A) ignitability.
- B) toxicity.
- C) reactivity.
- D) corrosivity.

Answer: <https://biology-forums.com/index.php?topic=257236>

Question 1281

Researchers genetically engineer a crop to produce chemicals that attract the natural enemies of a pest. This approach combines

- A) natural enemies and cultural control.
- B) cultural and genetic control.
- C) genetic and natural enemies control.
- D) cultural control and natural chemical control.

Answer: <https://biology-forums.com/index.php?topic=259093>

Question 1282

In many countries, the policy life cycle will be in

- A) a different stage for different problems, which is unrelated to the stage of economic development of a country.
- B) the same stage for different problems, which is unrelated to the stage of economic development of a country.

C) a different stage for different problems, which is related to the stage of economic development of a country.
D) the same stage for different problems, which is related to the stage of economic development of a country.
Answer: <https://biology-forums.com/index.php?topic=258112>

Question 1283

This photograph illustrates
A) the consumptive use of a natural resource.
B) the productive use of a natural resource.
C) the maximum sustainable yield of a resource.
D) the carrying capacity of a population.
Answer: <https://biology-forums.com/index.php?topic=258542>

Question 1284

Examine the map in this figure and identify which of the following regions represent the lowest combined levels of poverty?
A) North and South America
B) Southeast Asia and the Middle East
C) Central, southern, and northern Africa
D) Asia Pacific and eastern Asia
Answer: <https://biology-forums.com/index.php?topic=258641>

Question 1285

When driving down the highway, the backs of many trucks have HAZMAT signs with blue, red, and yellow sections. These signs indicate
A) the type of hazardous material being transported.
B) the amount of hazardous material being transported.
C) the type and amount of hazardous material being transported.
D) the source of the hazardous material being transported.
Answer: <https://biology-forums.com/index.php?topic=257333>

Question 1286

Carbon dioxide in the atmosphere contributes to global warming by
A) transmitting visible light and absorbing infrared radiation.
B) transmitting infrared radiation and absorbing visible light.
C) transmitting infrared radiation and visible light.
D) absorbing infrared radiation and visible light.
Answer: <https://biology-forums.com/index.php?topic=257985>

Question 1287

The lessons of the people of Easter Island best reveal the need for
A) sustainable development.
B) sound science.
C) social justice.
D) political action.
Answer: <https://biology-forums.com/index.php?topic=257501>

Question 1288

Urban sprawl typically results in
A) narrower highways.
B) increased commuting distances.
C) increased population densities.
D) decreased reliance on automobiles.
Answer: <https://biology-forums.com/index.php?topic=257373>

Question 1289

Rising per capita income is associated with
A) decreasing needs for recycling.
B) cleaner air and safer water.
C) increased risks of respiratory disease.
D) increased frequency of water-borne diseases.
Answer: <https://biology-forums.com/index.php?topic=258059>

Question 1290

Which of the following has been the most recent political response to efforts of the environmental movement?

- A) increased efforts for deregulation
- B) increased attention to sources of radiation
- C) increased reliance upon fossil fuels
- D) decreased reliance upon technology

Answer: <https://biology-forums.com/index.php?topic=258007>

Question 1291

Most of the national forests in the United States

- A) have been protected for more than a century from any lumbering activities.
- B) occur in locations where logging is impractical.
- C) have been destroyed by invasive species.
- D) have been managed for commercial timber harvest.

Answer: <https://biology-forums.com/index.php?topic=258595>

Question 1292

The highest amounts of pesticides or their breakdown products would be found in a cougar in its

- A) saliva.
- B) muscles.
- C) kidneys.
- D) body fat.

Answer: <https://biology-forums.com/index.php?topic=259072>

Question 1293

Which of the following human activities have resulted in the conversion of nearly 50% of the Earth's land surface?

- A) construction of roads and bridges
- B) construction of all homes and buildings
- C) production of crop and animal products
- D) construction and operation of mines

Answer: <https://biology-forums.com/index.php?topic=258529>

Question 1294

At a county fair, the winner of the best garden vegetable competition is asked how she grows such wonderful produce consistently. Wanting not to reveal all of her secrets, she says she uses composted materials. What this gardener is using is

- A) a type of soil made of sand and fertilizer.
- B) a type of soil made of a mixture of clay and sand.
- C) decomposed organic matter called humus.
- D) a mixture of fungi, insects, and worms.

Answer: <https://biology-forums.com/index.php?topic=258910>

Question 1295

Which of the following demonstrates the greatest stewardship in addressing the production and disposal of MSW?

- A) promote strategies that reduce the generation of MSW
- B) compost organic components of MSW
- C) recycle MSW as much as possible
- D) promote strategies that reduce MSW, compost organic components, and recycle as much MSW as possible

Answer: <https://biology-forums.com/index.php?topic=257193>

Question 1296

Enhanced geothermal systems

- A) generate electricity using the heat of the earth to make steam.
- B) are routinely used in China to power automobiles.
- C) use the energy of the sun to boil water and generate electricity.
- D) use gravity to propel large turbines, which generate electricity.

Answer: <https://biology-forums.com/index.php?topic=259383>

Question 1297

At the mouth of the Mississippi River in Louisiana, the loss of coastal wetlands due to human activities contributed to the extent of storm damage caused by recent severe hurricanes. This loss of coastal wetlands therefore represents a

- A) loss of natural goods.
- B) loss of natural services.
- C) long-term regional benefit to humans.
- D) long-term economic benefit to humans.

Answer: <https://biology-forums.com/index.php?topic=258522>

Question 1298

Leaching of minerals from soils, especially calcium, magnesium and potassium can be increased when

- A) the pH is lowered, especially from acid rain.
- B) salty irrigation water is used to flush out polluted soils.
- C) anti-microbial agents and nanoparticles contaminate soils.
- D) excess chemical fertilizer is used over many years.

Answer: <https://biology-forums.com/index.php?topic=258945>

Question 1299

If a cold front moves into a moist region,

- A) humidity will likely decrease.
- B) the chances of precipitation will increase.
- C) evaporation will increase.
- D) photosynthesis will increase.

Answer: <https://biology-forums.com/index.php?topic=258783>

Question 1300

The total allowable catch of a marine fish used for human food would be determined by calculating the

- A) maximum sustainable yield.
- B) minimum sustainable yield.
- C) maximum consumptive use.
- D) carrying capacity of all species in the environment.

Answer: <https://biology-forums.com/index.php?topic=258538>

Question 1301

Two insect food chains are illustrated in this figure. If a persistent insecticide were applied to the plants in these systems, where would we expect to find the high concentrations due to biomagnification?

- A) the grasshopper and caterpillar
- B) the praying mantis and caterpillar
- C) the caterpillar and parasitic wasp
- D) the praying mantis and parasitic wasp

Answer: <https://biology-forums.com/index.php?topic=259089>

Question 1302

As global populations increase demands for water and global warming continues, the most sustainable source of water for poor developing countries will be

- A) groundwater aquifers.
- B) dams to capture runoff water.
- C) estuaries.
- D) desalination plants.

Answer: <https://biology-forums.com/index.php?topic=258835>

Question 1303

The trickling-filter system and the activated-sludge system both require

- A) high levels of oxygen to promote aerobic decomposition.
- B) high levels of carbon dioxide to adjust the pH of the water for bacterial action.
- C) the addition of large amounts of chlorine to kill pathogens.
- D) the addition of large amounts of ammonia as nutrients to support decomposers.

Answer: <https://biology-forums.com/index.php?topic=256978>

Question 1304

One of the keys to helping the people who live in the vast slums surrounding major cities in the developing world is to

- A) grant them lawful titles to the land where they live.
- B) offer them transportation to the countryside where they will more likely find jobs.
- C) help them identify distant family members and help them relocate to the cities.
- D) help them repay student loans used in their educations.

Answer: <https://biology-forums.com/index.php?topic=257453>

Question 1305

In general, humans can harvest renewable resources of plants and animals at sustainable levels because

- A) ecosystems continue to change with new species replacing those that have been harvested.
- B) new species are always evolving to take the place of those that are harvested.
- C) organisms naturally produce many more offspring than are needed to maintain their populations.
- D) people naturally harvest organisms only after they have had a chance to reproduce.

Answer: <https://biology-forums.com/index.php?topic=258532>

Question 1306

Biomes with less than 25 centimeters (10 inches) of rain a year are

- A) high in primary productivity.
- B) likely to have extremely cold winters.
- C) covered with coniferous trees.
- D) deserts.

Answer: <https://biology-forums.com/index.php?topic=258353>

Question 1307

Oil production is a misnomer for the process used by oil companies because

- A) the oil reserves may not be as large as expected.
- B) the oil was produced hundreds of millions of years ago.
- C) much of the oil is found in other forms, such as tar and natural gas.
- D) most oil is produced by drilling deeply into the Earth.

Answer: <https://biology-forums.com/index.php?topic=259166>

Question 1308

Which one of the following is a molecule but not a compound?

- A) H₂O
- B) CO₂
- C) O₂
- D) CH₄

Answer: <https://biology-forums.com/index.php?topic=258170>

Question 1309

We would expect that soil leaching would be most severe in regions where

- A) there is little rainfall and no irrigation of crops.
- B) irrigation is applied to fields on hillsides.
- C) mollisols are abundant and farmers rarely plow.
- D) cattle are grazed and natural grasses cover the land.

Answer: <https://biology-forums.com/index.php?topic=258892>

Question 1310

In the Appalachian Mountains, several species of salamander live in or near a stream. The largest species lives in the stream and along its edges, a smaller species lives on land within a meter or two of the stream, and a smaller species lives about 3-5 meters away from the stream. In this region, these three salamander species are using

- A) different niches within the same habitat.
- B) the same niche and microhabitat.
- C) the same landscape but different ecosystems.
- D) the same set of limiting resources.

Answer: <https://biology-forums.com/index.php?topic=258167>

Question 1311

The figure reveals the history of various types of oil and gas production. Based on these data,

- A) combined oil and gas production peaked about 2008.
- B) most forms of oil production will not peak until 2050.

C) oil production is holding steady.
D) polar oil reserves will play a major role in the next 20 years.
Answer: <https://biology-forums.com/index.php?topic=259197>

Question 1312

China's one-child policy was adopted because
A) contagious disease was rampant in the 1970s and fewer people meant less contagion.
B) it was clear the nation could not live within the limit of its resources if the population continued to grow.
C) there were too few jobs and too many people.
D) the fertility rate was too low and the nation needed more people to populate vacant lands.
Answer: <https://biology-forums.com/index.php?topic=258744>

Question 1313

The recent increase in forest fires in the United States is most related to
A) increases in logging in the region.
B) a decade of drought.
C) government policies that have dramatically increased the size of forests in the west.
D) new management policies that no longer try to stop or control wildfires.
Answer: <https://biology-forums.com/index.php?topic=258602>

Question 1314

Which one of the following is fed by groundwater and often drained by seeps or springs?
A) lakes
B) aquifers
C) rivers
D) watersheds
Answer: <https://biology-forums.com/index.php?topic=258806>

Question 1315

Which of the following would be best suited for planting crops such as corn or wheat?
A) an irrigated aridisol
B) a fertilized alfisol
C) a plowed oxisol
D) an irrigated gelisol
Answer: <https://biology-forums.com/index.php?topic=258887>

Question 1316

Which one of the following does not represent indirect solar energy?
A) nuclear fission
B) biomass
C) hydroelectric
D) windmills
Answer: <https://biology-forums.com/index.php?topic=259348>

Question 1317

In this figure, which of the following represents a potentially sustainable process?
A) the transformation of oil into heat energy in a power plant
B) the generation of wastes as a byproduct of human consumption
C) the release of heat into the atmosphere
D) the recycling of materials generated by human consumption
Answer: <https://biology-forums.com/index.php?topic=258082>

Question 1318

Responsible stewardship in the coming decades will require global energy policies that promote
A) both sustainability and technological efficiency.
B) productivity and economic prosperity in developing nations.
C) the development of abundant and inexpensive fossil fuels such as shale gas.
D) additional exploration of shale oil and natural gas resources.
Answer: <https://biology-forums.com/index.php?topic=259392>

Question 1319

Which one of the following is least appropriate to the field of environmental science? Scientists

- A) determine the best fuel to generate electricity for a growing city in Arizona.
- B) help a rancher determine the best ways to rotate herds of cattle to reduce erosion.
- C) study X-ray emissions for evidence of black holes.
- D) at NASA launch satellites to monitor changes in carbon dioxide production on Earth.

Answer: <https://biology-forums.com/index.php?topic=257997>

Question 1320

Wild turkeys, peregrine falcons, and snowy egrets are examples of birds that have

- A) now gone extinct despite extensive efforts to save these species.
- B) very few individuals restricted to just a few small populations.
- C) all been severely impacted by the spread of the bird flu.
- D) recovered significantly since gaining legal protection.

Answer: <https://biology-forums.com/index.php?topic=258500>

Question 1321

The movie, A Civil Action, told the story of the

- A) cleanup of a Superfund site in Massachusetts.
- B) first Superfund site ever completely cleaned up.
- C) first cleanup using a combination of phytoremediation and incineration.
- D) first time that a company agreed to pay for the cleanup of a Superfund site.

Answer: <https://biology-forums.com/index.php?topic=257306>

Question 1322

Getting ready to mow the lawn, Jerome spills gasoline on his hands as he tries to fill up the gas tank on the mower. About an hour later, his skin is very red and itches intensely, and he just does not feel well. Jerome is experiencing

- A) chronic effects of a carcinogen.
- B) acute toxicity from the gasoline.
- C) metabolic relief from a toxin.
- D) chronic effects of toxic components of gasoline.

Answer: <https://biology-forums.com/index.php?topic=257219>

Question 1323

In a small pond, which averages about 6 feet deep or less, eutrophication typically produces

- A) low levels of dissolved oxygen and abundant amounts of submerged aquatic vegetation.
- B) low levels of dissolved oxygen and no submerged aquatic vegetation.
- C) high levels of dissolved oxygen and abundant amounts of submerged aquatic vegetation.
- D) high levels of dissolved oxygen and no submerged aquatic vegetation.

Answer: <https://biology-forums.com/index.php?topic=257011>

Question 1324

If the world cooperated and stabilized the atmospheric levels of GHGs,

- A) global temperatures would quickly level off within a year.
- B) sea levels would continue to rise for hundreds of years because of their long residence times.
- C) rain forests would quickly start to recover and regrow.
- D) weather would quickly become predictable.

Answer: <https://biology-forums.com/index.php?topic=256666>

Question 1325

The 1994 Cairo Conference on Population and Development found that the greatest threats to the health of the environment were

- A) poverty, development, and population growth.
- B) education and the overuse of modern medicine.
- C) agriculture and surface mining operations.
- D) trends towards urbanization.

Answer: <https://biology-forums.com/index.php?topic=258703>

Question 1326

All solar energy on Earth is a result of a reaction of hydrogen atoms combining to form helium. This reaction

- A) increases the combined mass of the products.
- B) represents a fusion reaction followed by nuclear fission.
- C) is the same general process that occurs in nuclear plants.
- D) is fusion, while nuclear plants rely on fission.

Answer: <https://biology-forums.com/index.php?topic=259248>

Question 1327

Large-scale commercial extraction of oil from oil shale and oil sand

- A) will only be cost-effective at much higher oil prices.
- B) is a relatively easy, low-impact method that remains to be used.
- C) is an impractical source of oil that will not ever be used widely.
- D) produces an oil that cannot be used to produce gasoline.

Answer: <https://biology-forums.com/index.php?topic=259213>

Question 1328

Most of the wheat, rice, and corn raised in the world has resulted from genetic engineering of one sort or another, either by crossing certain varieties or deliberately transferring genes using transgenic techniques. These methods select for plants that produce their own defenses against pests with chemicals or physical barriers. Helping to feed the world, this represents an example of

- A) cultural control.
- B) natural enemies control.
- C) genetic control.
- D) natural chemical control.

Answer: <https://biology-forums.com/index.php?topic=259096>

Question 1329

Which biome is characterized by permafrost?

- A) tundra
- B) high latitude temperate forests
- C) cold deserts
- D) high latitude coniferous forests

Answer: <https://biology-forums.com/index.php?topic=258358>

Question 1330

The greatest progress in reducing atmospheric levels of lead pollution resulted from

- A) the elimination of leaded gas.
- B) the switch from lead to graphite in pencils.
- C) the development of new types of batteries that use lithium instead of lead.
- D) new types of lead scrubbers on smokestacks that removed lead from the air.

Answer: <https://biology-forums.com/index.php?topic=256788>

Question 1331

Composting toilet systems require

- A) aerobic bacteria.
- B) anaerobic bacteria.
- C) large fungal colonies.
- D) large volumes of water.

Answer: <https://biology-forums.com/index.php?topic=256999>

Question 1332

Which of the following has been most negatively impacted by globalization?

- A) the exchange of information
- B) agricultural practices
- C) public-health practices
- D) local cultures' religious and dietary traditions

Answer: <https://biology-forums.com/index.php?topic=258045>

Question 1333

For nearly 50 years, a farmer has raised corn and soybeans on his family's 1,000-acre farm by a river. Now in retirement, the farmer wants to return the farmland to its natural state as a wetland in the floodplain of the river. The farmer will most need the services of

- A) a crop scientist.
- B) a restoration ecologist and data from LTER projects.
- C) an agricultural engineer with training in successional dynamics.
- D) a functional morphologist.

Answer: <https://biology-forums.com/index.php?topic=258390>

Question 1334

Which of the following represents the proper sequence of these types of erosion, resulting from rainfall?

- A) Gully erosion leads to splash erosion that contributes sheet erosion.
- B) Sheet erosion leads to gully erosion that contributes splash erosion.
- C) Sheet erosion leads to splash erosion that contributes to gully erosion.
- D) Splash erosion leads to sheet erosion that contributes to gully erosion.

Answer: <https://biology-forums.com/index.php?topic=258923>

Question 1335

Premature aging of the skin and cataracts are on the increase due to increased

- A) levels of sulfur dioxide in the atmosphere.
- B) levels of carbon monoxide in the atmosphere.
- C) exposure to ultraviolet light.
- D) exposure to infrared radiation from the sun.

Answer: <https://biology-forums.com/index.php?topic=256881>

Question 1336

Given the problems of inconsistent winds, the best place to position new wind turbines would be

- A) along railroad tracks, where there are few trees.
- B) along rivers and streams, where there is less human interference.
- C) in offshore locations where winds are more consistent.
- D) in deserts, where few man-made structures are located.

Answer: <https://biology-forums.com/index.php?topic=259354>

Question 1337

Which of the following descriptions is most characteristic of the world's poorest people?

- A) On her way to high school, a young girl walks along a path at the edge of a rice field.
- B) Filling a pot with water from a community water reserve, a mother prepares to make a meal of rice and fish, barely enough to feed her husband and two children.
- C) A thin man in his 80s, smoking a cigarette, makes his way to cast a ballot in a national election.
- D) In a large city, a 12 year-old boy sits under a stack of tin he calls home, unable to read the nearby billboards.

Answer: <https://biology-forums.com/index.php?topic=258717>

Question 1338

Which of the following methods would be most effective at the cleanup of soils at hazardous waste sites eligible for LUST funds?

- A) phytoremediation
- B) bioremediation
- C) reverse osmosis refinement
- D) hydroponic intervention

Answer: <https://biology-forums.com/index.php?topic=257314>

Question 1339

We would expect that in a community with mounting air and water pollution problems, the

- A) economy of the region would decline.
- B) unemployment rates would drop.
- C) health care would become less important.
- D) population would increase.

Answer: <https://biology-forums.com/index.php?topic=258058>

Question 1340

Territoriality

- A) reduces intraspecific fighting and ensures adequate resources for some members of a species.
- B) encourages interspecific fighting and helps share density-independent resources.
- C) encourages predation and reduces intraspecific competition.

D) is more likely in r-selected species with short life spans and many offspring.

Answer: <https://biology-forums.com/index.php?topic=258273>

Question 1341

Which one of the following is most associated with an air-pollution disaster?

- A) high winds
- B) a temperature inversion
- C) increased industrial production
- D) shutdown of a power plant

Answer: <https://biology-forums.com/index.php?topic=256762>

Question 1342

Over the past 50 years in the United States, the populations of

- A) suburbs have increased while rural regions and city centers have declined.
- B) suburbs and rural regions have increased while city centers have declined.
- C) city centers have increased while suburbs and rural regions have declined.
- D) city centers and rural regions have increased while suburbs have declined.

Answer: <https://biology-forums.com/index.php?topic=257403>

Question 1343

Cell respiration and photosynthesis are both complex processes that

- A) result in the production of glucose.
- B) release carbon dioxide.
- C) generate oxygen from soil minerals.
- D) require enzymes which promote either synthesis or breaking of chemical bonds.

Answer: <https://biology-forums.com/index.php?topic=258211>

Question 1344

Shadow pricing is used to estimate the

- A) deterioration and replacement costs of materials.
- B) reduced cost of providing health care.
- C) cost of cleaning up an oil spill.
- D) value of an endangered species of plant.

Answer: <https://biology-forums.com/index.php?topic=258125>

Question 1345

The Haber-Bosch process creates nitrogenous fertilizers by

- A) extracting reactive nitrogen from soils.
- B) converting nitrogen gas and hydrogen to ammonia.
- C) extracting nitrogen oxides from the gases produced when fossil fuels are burned.
- D) allowing vegetative detritus to break down under anaerobic conditions.

Answer: <https://biology-forums.com/index.php?topic=258222>

Question 1346

If a subdivision is built by clearing several portions of a large wooded region, we might see an increase in the

- A) number of jays or cowbirds in the region.
- B) number of songbirds in the region.
- C) biodiversity in the region.
- D) number of large-sized species with slower individual growth.

Answer: <https://biology-forums.com/index.php?topic=258440>

Question 1347

Prior to WWII, people living in cities in the United States enjoyed

- A) a housing boom.
- B) widespread use of public transportation.
- C) increasing quality of public housing.
- D) improving air quality.

Answer: <https://biology-forums.com/index.php?topic=257379>

Question 1348

Which of the following best illustrates the sustainable use of a resource?

- A) Coal mines in West Virginia remove the tops of mountains to extract large amounts of coal.
- B) Fishing industries improve their methods and now remove more than 90% of the fish in a region.
- C) Huge windmills in Texas are able to capture 50% of the wind energy in a specific region.
- D) Corporations are converting their company automobiles from gasoline to cheaper natural gas.

Answer: <https://biology-forums.com/index.php?topic=258035>

Question 1349

Most of the energy captured by photosynthesis is stored in chemical bonds in

- A) glucose.
- B) oxygen.
- C) carbon dioxide.
- D) water.

Answer: <https://biology-forums.com/index.php?topic=258207>

Question 1350

The greatest impact of globalization is seen in the

- A) increased access of natural resources to poor developing nations.
- B) economic reorganization and interdependency of the world.
- C) move towards sustainable development throughout the world.
- D) general shift in populations from cities to rural life.

Answer: <https://biology-forums.com/index.php?topic=258047>

Question 1351

Recycling aluminum is particularly beneficial because it

- A) saves energy.
- B) creates jobs in the country that recycles.
- C) decreases the need to import virgin aluminum ore.
- D) saves energy, creates jobs, and decreases imports of virgin aluminum ore.

Answer: <https://biology-forums.com/index.php?topic=257157>

Question 1352

You visit a region with two-way currents to see where many marine organisms inhabit shallow, nutrient rich waters. You are visiting

- A) an estuary.
- B) the open ocean.
- C) an inland wetland.
- D) a region where a stream flows into a lake.

Answer: <https://biology-forums.com/index.php?topic=258359>

Question 1353

As climate change continues, we expect that the countries with the

- A) largest coastlines will experience the greatest impacts.
- B) greatest resources will experience the greatest impacts.
- C) fewest resources will experience the greatest impacts.
- D) fewest resources will experience the lowest impacts.

Answer: <https://biology-forums.com/index.php?topic=256717>

Question 1354

When an automobile heats up in bright sunlight with windows rolled up, the glass in the car functions most like

- A) rain in the atmosphere.
- B) clouds in the atmosphere.
- C) sulfate aerosol in the atmosphere.
- D) carbon dioxide in the atmosphere.

Answer: <https://biology-forums.com/index.php?topic=256637>

Question 1355

At the mouth of the Mississippi River, large concentrations of nitrogen and phosphorus flow into the Gulf of Mexico, causing nutrient overloading, algal

blooms, and extremely low levels of oxygen. Which revolutions are most responsible for this problem?

- A) Industrial Revolution and Medical Revolution
- B) Medical Revolution and Neolithic Revolution
- C) Green Revolution and Industrial Revolution
- D) Environmental Revolution and Medical Revolution

Answer: <https://biology-forums.com/index.php?topic=258623>

Question 1356

In order to make a rapid transition to renewable energies, countries like the United States will have to

- A) reduce subsidies to the fossil fuel industry.
- B) reduce subsidies to renewable energy development to create economic parity.
- C) manufacture smaller, more fuel efficient cars and trucks.
- D) strengthen its ties and involvement with the Middle East.

Answer: <https://biology-forums.com/index.php?topic=259311>

Question 1357

The social and economic changes in Thailand over the past 50 years have

- A) caused the population to decline by 20%.
- B) been at the expense of poorer nutrition for children.
- C) slowed population growth significantly.
- D) shown that the nation has yet to undergo the fertility transition.

Answer: <https://biology-forums.com/index.php?topic=258691>

Question 1358

A garden is suffering from a quickly growing mold. The most effective treatment for this problem would be the application of

- A) an herbicide.
- B) a fungicide.
- C) a pesticide.
- D) a rodenticide.

Answer: <https://biology-forums.com/index.php?topic=259051>

Question 1359

A group of frogs in a rain forest represents a population if the frogs

- A) live in the same region and can potentially reproduce with each other.
- B) look similar to each other and seem to be well adapted to the same region.
- C) are preyed upon by the same group of predators and seem to be camouflaged.
- D) live in the same region and feed on about the same types of food.

Answer: <https://biology-forums.com/index.php?topic=258230>

Question 1360

Pesticide regulations such as those in FIFRA and FQPA address concerns about the safety of those applying the pesticides, pesticide residues on food, and the effects of pesticides on

- A) human health.
- B) the environment.
- C) human health and the environment.
- D) human health, the environment, and the local culture.

Answer: <https://biology-forums.com/index.php?topic=259118>

Question 1361

War is most likely to contribute to famine

- A) where food production and distribution is already problematic.
- B) where rice is the main source of food.
- C) in countries that are primarily exporters of grain.
- D) in coastal regions that make great use of seafood.

Answer: <https://biology-forums.com/index.php?topic=259026>

Question 1362

The most important limiting factor for most driver-commuters is

- A) the distance to their job.
- B) the time it takes to drive to their job.

- C) the cost of transportation to get to their job.
- D) the health risks associated with getting to their job.

Answer: <https://biology-forums.com/index.php?topic=257385>

Question 1363

The changes in behavior of the fishermen on Tangier Island since 1997 best reflects

- A) values-based stewardship.
- B) personal gain.
- C) sound science.
- D) sustainable use of energy.

Answer: <https://biology-forums.com/index.php?topic=257498>

Question 1364

Concerned with the expensive disposal of their hazardous wastes, a company learns that it can purchase another chemical that will neutralize the company's hazardous wastes into a nontoxic form. The strategy used by this company is most consistent with which of the following hazardous-waste disposal system methods?

- A) secure landfill
- B) deep-well injection
- C) on-site surface impoundment
- D) best-demonstrated available technology

Answer: <https://biology-forums.com/index.php?topic=257283>

Question 1365

In 2010, Iceland's Eyjafjallajökull volcano erupted. One of the results was that

- A) devastating erosion sculpted the land into large ravines.
- B) most cattle and horses were killed by toxic gases.
- C) grasses were covered by ash and were unfit for livestock to eat.
- D) parasitic diseases spread quickly through livestock populations.

Answer: <https://biology-forums.com/index.php?topic=258315>

Question 1366

Compared to near-shore aquaculture, open ocean aquaculture

- A) is more polluted.
- B) has higher concentrations of pathogens.
- C) is restricted to carnivorous species.
- D) has less competition from other activities.

Answer: <https://biology-forums.com/index.php?topic=258573>

Question 1367

The value of programs such as the Reef Environmental Education Foundation (REEF) lies in

- A) their ability to raise funds for coral reef research.
- B) their involvement of citizens in the collection of data and the removal of invasive species from coral reefs.
- C) their use of untrained volunteers to replace qualified scientists in marine biology.
- D) the increase in commercial fishing yields in the Caribbean.

Answer: <https://biology-forums.com/index.php?topic=258513>

Question 1368

Citizens of the poorest countries may resent restrictions on carbon emissions imposed by wealthy countries because developed countries

- A) occupy a much larger percentage of the Earth.
- B) do not manage their water resources efficiently.
- C) have much higher fertility rates.
- D) have a greater impact on the environment.

Answer: <https://biology-forums.com/index.php?topic=258646>

Question 1369

Non-persistent pesticides like organophosphates and carbamates

- A) will be far less likely to cause biomagnification and bioamplification than persistent pesticides.
- B) will produce fatal toxic effects in all producers and low-level consumers that are exposed.
- C) target only the pest species; there are no non-target kills.
- D) produce resistance in pest predators but not in the pests themselves.

Answer: <https://biology-forums.com/index.php?topic=259067>

Question 1370

Which of the following processes requires an oxygen-free environment and produces large volumes of methane that can be used for fuel?

- A) pasteurization
- B) composting
- C) centrifugation
- D) anaerobic sludge digestion

Answer: <https://biology-forums.com/index.php?topic=256986>

Question 1371

Without the additional equipment and labor, the unregulated pollution is expected to cause about \$4 million in health care costs. This pollution from the smokestacks is an example of

- A) an internal bad cost.
- B) an internal good cost.
- C) an external bad cost.
- D) an external good cost.

Answer: <https://biology-forums.com/index.php?topic=258118>

Question 1372

The industrial revolution has led to an increased reliance on fossil fuels to

- A) power farm machinery.
- B) power farm machinery and to produce fertilizers.
- C) power farm machinery and to produce fertilizers and pesticides.
- D) develop new types of crops.

Answer: <https://biology-forums.com/index.php?topic=258959>

Question 1373

Acid rain concentrated in the eastern portions of the United States is primarily the result of

- A) nuclear power plants in the region.
- B) coal-burning power plants in the Midwest.
- C) coal-burning power plants in northeastern Canada.
- D) off-shore oil drilling rigs along the east coast of the United States.

Answer: <https://biology-forums.com/index.php?topic=256792>

Question 1374

The most recently discovered air pollutant that is a stratospheric ozone destroying molecule is

- A) CO.
- B) sulfur oxides.
- C) VOCs.
- D) nitrous oxide (N₂O).

Answer: <https://biology-forums.com/index.php?topic=256892>

Question 1375

CFCs primarily contribute to the destruction of the ozone by

- A) producing chlorinated gases that reflect back a significant amount of ultraviolet light.
- B) releasing carbon monoxide into the stratosphere, which reacts with the oxygen in ozone.
- C) releasing gases into the stratosphere that block the enzymes that create ozone.
- D) contributing free chlorine atoms, which act as a catalyst in the breakdown of ozone.

Answer: <https://biology-forums.com/index.php?topic=256882>

Question 1376

As depicted in the film Contagion, isolated viral outbreaks can quickly become global threats if the virus is easily

- A) transferred between infected animals and people.
- B) transferred between people who then travel widely while infected.
- C) transferred between people who then quickly get ill and do not travel.
- D) transferred from infected people to people already ill with other diseases.

Answer: <https://biology-forums.com/index.php?topic=259397>

Question 1377

The hazardous-waste disposal system illustrated in this figure represents

- A) a deep-well injection.
- B) a secure landfill.
- C) an on-site surface impoundment.
- D) a best-demonstrated available technology.

Answer: <https://biology-forums.com/index.php?topic=257276>

Question 1378

The most effective way that malaria can be reduced in a region is using

- A) Salmonella control to treat infections and treatment strategies to prevent infections.
- B) vector control to prevent infections and treatment strategies for infections.
- C) antiviral medicines to reduce fevers and prevent disease transmission.
- D) better hygiene, improved sanitation practices, and uncontaminated sources of water.

Answer: <https://biology-forums.com/index.php?topic=256503>

Question 1379

Humans often manipulate the environment in ways that decrease the overall ecosystem capital because

- A) short-term gains are often local, while long-term losses in regulating and cultural services are experienced regionally.
- B) short-term gains are often regional, while long-term losses in regulating and cultural services are experienced locally.
- C) long-term gains are often local, while short-term losses in regulating and cultural services are experienced regionally.
- D) long-term gains are often regional, while short-term losses in regulating and cultural services are experienced locally.

Answer: <https://biology-forums.com/index.php?topic=258525>

Question 1380

The investigation of the causes of the sudden death of larval oysters in Oregon reveals

- A) the dangers of the introduction of exotic species into remote locations.
- B) the importance of understanding the local ethics of a community.
- C) the role of sound science in addressing environmental issues.
- D) the dangers of sustainable environmental practices resulting from globalization.

Answer: <https://biology-forums.com/index.php?topic=258051>

Question 1381

The disaster of Love Canal in New York in the 1970s illustrated the problem of

- A) unsafe nuclear waste disposal.
- B) unsafe toxic waste disposal.
- C) management of on-site surface impoundments.
- D) health problems resulting from processing of electronic wastes.

Answer: <https://biology-forums.com/index.php?topic=257286>

Question 1382

Which one of the following illustrates intraspecific competition?

- A) a butterfly feeding on the nectar of a daffodil flower
- B) a sea gull swooping down to snatch a fish from the water's surface
- C) a tick and a flea sharing a dog's back
- D) male red-winged blackbirds defending nesting sites from other males

Answer: <https://biology-forums.com/index.php?topic=258272>

Question 1383

Invasive species have been

- A) hunted to extinction in most places where they occur.
- B) successfully controlled in most regions using predators, viral or bacterial agents.
- C) successfully controlled by the introduction of other alien species that are natural competitors.
- D) an ecological problem in North America since the first European colonists arrived.

Answer: <https://biology-forums.com/index.php?topic=258445>

Question 1384

The main instrumental value of biological diversity is the

- A) ability of organisms to adapt to fluctuations in their natural environments.
- B) ability of natural ecosystems to respond to natural disasters.
- C) joy that humans gain from their beauty in nature.
- D) the potential for new types of domesticated animals and plants.

Answer: <https://biology-forums.com/index.php?topic=258418>

Question 1385

Walking through a national park, you step off a well-marked trail to take a photograph and accidentally trample a rare orchid. This is an example of

- A) commensalism.
- B) mutualism.
- C) predation.
- D) amensalism.

Answer: <https://biology-forums.com/index.php?topic=258261>

Question 1386

Although unusually high, extinction rates may be

- A) declining because of overestimates of some groups in some ecosystems.
- B) declining because fewer species are becoming threatened worldwide.
- C) even higher because of the loss of tropical forests.
- D) even higher because of intense predation in many grassland ecosystems.

Answer: <https://biology-forums.com/index.php?topic=258433>

Question 1387

In general, countries that enjoy the best health have

- A) the warmest climates.
- B) diets primarily based on eating grains.
- C) the largest families.
- D) good educational systems, particularly for women.

Answer: <https://biology-forums.com/index.php?topic=256466>

Question 1388

The main cause of desertification by the degradation of drylands is

- A) human activities.
- B) global increases in temperature.
- C) shifting weather patterns.
- D) destruction of the ozone layer.

Answer: <https://biology-forums.com/index.php?topic=258927>

Question 1389

The greatest potential pollution and public health problem resulting from the use of landfills in Florida is related to

- A) methane production.
- B) settling.
- C) incomplete decomposition.
- D) groundwater contamination.

Answer: <https://biology-forums.com/index.php?topic=257074>

Question 1390

In the United States, summers are warmer than winters because

- A) the Earth is much closer to the sun in summer.
- B) the northern hemisphere is closer to the sun.
- C) the sun's rays shine more directly onto these regions in summer.
- D) there are usually fewer clouds in the troposphere in the summer.

Answer: <https://biology-forums.com/index.php?topic=256576>

Question 1391

Which of the major revolutions was most associated with our increased ability to engage in modern warfare using guns and bombs?

- A) Neolithic Revolution
- B) Medical Revolution
- C) Green Revolution
- D) Industrial Revolution

Answer: <https://biology-forums.com/index.php?topic=258619>

Question 1392

Scientists use proxies to study climate to measure

- A) current levels of carbon dioxide.
- B) changes in temperature over the past 100 years.
- C) changes in the ozone layer over the past 30 years.
- D) climates hundreds and thousands of years ago.

Answer: <https://biology-forums.com/index.php?topic=256611>

Question 1393

Examine the differences between the plant on the left and the plant on the right. Which of the following represents a scientifically acceptable hypothesis about these plants?

- A) The plant on the left is taller and has a much bushier root mass than the plant on the right.
- B) The plant on the left is 39.01mm taller and has 89.2% more needles than the plant on the right.
- C) Both plants were placed in the same greenhouse and received the same amount of sunlight and water.
- D) The plant on the left is taller and has more roots and needles because it has a root-fungus symbiosis missing on the plant on the right.

Answer: <https://biology-forums.com/index.php?topic=258019>

Question 1394

Which of the following best illustrates sustainability?

- A) constructing coal mines that do not require extensive surface excavations
- B) increasing our reliance upon renewable sources of energy
- C) upgrading or replacing computers every few years to improve performance
- D) converting automobiles from gasoline to natural gas as a new source of fuel

Answer: <https://biology-forums.com/index.php?topic=258010>

Question 1395

Examine the changes in electrical demand in the United States. The daily drop in electrical consumption is most closely associated with

- A) people heading off to work.
- B) people sleeping.
- C) home heating and cooling systems.
- D) daytime activities that consume little energy.

Answer: <https://biology-forums.com/index.php?topic=259160>

Question 1396

The "Environmentalists Paradox" is

- A) As human population decreases, ecosystem health also decreases.
- B) As human material prosperity increases, ecosystem health decreases.
- C) The more non-renewable resources we use, the more new resources we discover.
- D) As biodiversity decreases, ecosystem health increases.

Answer: <https://biology-forums.com/index.php?topic=257980>

Question 1397

Resources for seagulls living along an ocean shore would include

- A) shifting tides.
- B) ocean temperature.
- C) the strength and direction of the wind.
- D) nesting sites.

Answer: <https://biology-forums.com/index.php?topic=258157>

Question 1398

In this pond, experiencing cultural eutrophication, the growth of this duckweed will

- A) add nutrients to the pond and encourage the growth of phytoplankton.
- B) remove nutrients from the pond and encourage the growth of phytoplankton.
- C) add nutrients to the pond and slow the growth of phytoplankton.
- D) remove nutrients from the pond and slow the growth of phytoplankton.

Answer: <https://biology-forums.com/index.php?topic=257017>

Question 1399

The Convention on Biological Diversity is an international treaty

- A) ratified by the United States to globally limit the loss of biodiversity.
- B) ratified by the United States to limit the international trade of endangered species.
- C) that aims to conserve biological diversity worldwide but has not been ratified in the United States.
- D) that would purchase all endangered species habitats in the world but has not been ratified in the United States.

Answer: <https://biology-forums.com/index.php?topic=258507>

Question 1400

Even if people cannot easily spread bird flu from person to person, how might bird flu virus spread in the world?

- A) Vaccines against bird flu might spread the disease all over the world.
- B) Antibiotics against bird flu will stop working.
- C) Migrating birds might spread the flu widely.
- D) Hunters shooting the birds and eating the meat might be infected.

Answer: <https://biology-forums.com/index.php?topic=259399>

Question 1401

Climatologists warn of a tipping point when global temperatures trigger catastrophic events and sea levels rise more than 50 feet. About how much warmer does the world need to get for this tipping point to happen?

- A) 1°C
- B) 2-3°C
- C) 7°C
- D) 12°C

Answer: <https://biology-forums.com/index.php?topic=256698>

Question 1402

In most large cities, suburban commuters might benefit from the use of light rail systems for commuting. In most cities, if commuters switched from driving to rail commuting, they would

- A) arrive at their destinations in half the time.
- B) need to travel nearly twice the distance to get to their jobs.
- C) spend more money on commuting.
- D) use fewer natural resources, especially fossil fuels.

Answer: <https://biology-forums.com/index.php?topic=257391>

Question 1403

A recent study indicated that more than 60% of human pathogens are zoonotic, meaning that they

- A) can infect any animal species.
- B) originate in humans and spread to various species of animals.
- C) can be transmitted between animals and humans.
- D) are invariably fatal in animals but can cause serious illness to humans.

Answer: <https://biology-forums.com/index.php?topic=259400>

Question 1404

In 1948 in Donora, Pennsylvania, the routine release of toxins into the air became a deadly fog because of

- A) a chemical spill in the nearby Monongahela River.
- B) greatly increased activity of the nearby industries.
- C) a thermal inversion and stagnant weather conditions.
- D) the failure of the chemical scrubbing systems on smokestacks.

Answer: <https://biology-forums.com/index.php?topic=256728>

Question 1405

Most organisms native to a desert community are

- A) well adapted to the heat and dry environment.
- B) well adapted to the heat but probably not the dry environment.
- C) well adapted to the dry environment but probably not the heat.
- D) not well adapted to the heat or dry environment.

Answer: <https://biology-forums.com/index.php?topic=258146>

Question 1406

If you traveled along the North Atlantic Deep Water Current, you would most likely flow from waters near

- A) South Africa to Iceland.
- B) Brazil to Japan.
- C) Iceland to California.
- D) Brazil to South Africa.

Answer: <https://biology-forums.com/index.php?topic=256628>

Question 1407

The precautionary principle, the polluter pays principle, and the equity principle are all reflections of

- A) sound science.
- B) sustainability.
- C) adaptation.
- D) stewardship.

Answer: <https://biology-forums.com/index.php?topic=256721>

Question 1408

A system of integrated waste management involves

- A) landfills.
- B) recycling.
- C) composting.
- D) a combination of ways to handle MSW.

Answer: <https://biology-forums.com/index.php?topic=257189>

Question 1409

People with home septic systems often flush several cups of a powdered substance down their toilets every month or two to keep their systems healthy. These powdered substances most likely contain

- A) bacteria and enzymes that help break down wastes.
- B) chlorine and other disinfectants that help to prevent soil contamination.
- C) chemicals that bind to heavy metals to keep them from leaching into the soil.
- D) acids that help to clean the insides of the walls of the pipes and septic tank.

Answer: <https://biology-forums.com/index.php?topic=256992>

Question 1410

Dung beetles feeding on the waste of cattle grazing on hay in a field represent

- A) a decomposer feeding on the wastes of a consumer eating a producer.
- B) a producer feeding on the wastes of a producer eating a consumer.
- C) a producer feeding on the wastes of a consumer eating a producer.
- D) a consumer feeding on the wastes of a decomposer eating a producer.

Answer: <https://biology-forums.com/index.php?topic=258324>

Question 1411

Rising GHGs in the 21st century most confidently predict

- A) increases in global temperatures and sea levels.
- B) decreases in polar temperatures but increases in sea levels.
- C) decreases in sea levels but increases in polar temperatures.
- D) increases in ocean pH and increases in sea levels.

Answer: <https://biology-forums.com/index.php?topic=256658>

Question 1412

Which biome is characterized by frequent fires and rich soils?

- A) tropical rainforests
- B) tundra
- C) grasslands and prairies
- D) temperate forests

Answer: <https://biology-forums.com/index.php?topic=258356>

Question 1413

The use of enhanced recovery by an oil company

- A) primarily depends upon the current market price of oil.
- B) is usually more cost effective than recovering oil using secondary recovery.
- C) has not yet been used because oil reserves remain abundant.
- D) is now routine, as every bit of oil is extracted from all available wells.

Answer: <https://biology-forums.com/index.php?topic=259171>

Question 1414

One of the greatest human impacts on natural ecosystems results from

- A) the disruption of natural biogeochemical cycles.
- B) the generation of electricity from nuclear energy.
- C) the use of our oceans for shipping and transportation.
- D) the use of the sun and wind to generate electricity.

Answer: <https://biology-forums.com/index.php?topic=258383>

Question 1415

Since about 1985, the world population has increased by about

- A) 10%.
- B) 40%.
- C) 70%.
- D) 100%.

Answer: <https://biology-forums.com/index.php?topic=257973>

Question 1416

How could this water fountain help address the eutrophication of this pond? The water fountain will

- A) kill most of the algae in the pond.
- B) encourage the growth of submerged vegetation.
- C) increase the oxygen levels of the pond.
- D) remove nutrients from the pond.

Answer: <https://biology-forums.com/index.php?topic=257023>

Question 1417

The location of hazardous waste sites and hazardous facilities in the United States is most related to the

- A) occupations of the people living in the affected region.
- B) income and sex of the people living in the affected region.
- C) race and income of the people living in the affected region.
- D) mobility and diversity of the people living in the affected region.

Answer: <https://biology-forums.com/index.php?topic=257351>

Question 1418

One challenge to the protection of endangered animal species from overexploitation for commercial purposes, such as rhinoceros horns, is that as a species becomes increasingly rare,

- A) the laws protecting that species tend to become even more restrictive.
- B) the price of illegal animal products increases.
- C) it is more difficult for poachers to capture the animal.
- D) fewer poachers may search for the endangered animal.

Answer: <https://biology-forums.com/index.php?topic=258485>

Question 1419

Crown fires

- A) create a mosaic of successional stages in an ecosystem.
- B) decrease biodiversity by eliminating species that are fire resistant.
- C) increase the later stages of succession.
- D) are not a natural factor in undisturbed ecosystems.

Answer: <https://biology-forums.com/index.php?topic=258374>

Question 1420

Nonpersistent pesticides can be more dangerous than persistent pesticides because they usually

- A) are more toxic.
- B) last longer in the environment.

C) are radioactive.
D) are broken down into nontoxic products within a few weeks of application.
Answer: <https://biology-forums.com/index.php?topic=259083>

Question 1421

Judging by the graph in the figure, if you were going to purchase stock in U.S. companies that generate power in the United States, where would you least likely expect to see future growth?

- A) nuclear power plants
- B) hydroelectric dams
- C) power plants using coal
- D) power plants using natural gas

Answer: <https://biology-forums.com/index.php?topic=259145>

Question 1422

The complete combustion of fossil fuels and refuse produces

- A) radon and carbon monoxide.
- B) volatile organic compounds.
- C) sulfuric acid and nitric acid.
- D) carbon dioxide and water vapor.

Answer: <https://biology-forums.com/index.php?topic=256782>

Question 1423

This is a photograph of what remains of the Chernobyl nuclear power plant that was destroyed in 1986. This reactor exploded primarily because of

- A) a terrorist attack.
- B) the overuse of the fuel rods.
- C) human operating error and design flaws.
- D) increased demand for electricity.

Answer: <https://biology-forums.com/index.php?topic=259279>

Question 1424

Because of public pressure and environmental concerns, marketers of bottled water have

- A) switched to biodegradable bottles.
- B) given strong support to state bottle bills.
- C) lowered the cost of the product.
- D) intensified marketing in developing nations where clean drinking water is scarce.

Answer: <https://biology-forums.com/index.php?topic=257181>

Question 1425

The two students agree to use brand X, but they are unsure which sizes they should get. Which of the following options will most likely generate the least amount of MSW? To generate the least MSW, they should purchase

- A) fifteen 20-ounce spray bottles of cleaner.
- B) ten 20-ounce spray bottles and a 100-ounce refill jug.
- C) five 20-ounce spray bottles and two 100-ounce refill jugs.
- D) two 20-ounce spray bottles and one 260-ounce refill jug.

Answer: <https://biology-forums.com/index.php?topic=257136>

Question 1426

The economics of solar electricity are

- A) bleak because there is a large gap between the price of energy from coal and from PV cells.
- B) excellent for CSP technology but discouraging for PV cells.
- C) growing at phenomenal rate as prices for PV cells continue to drop by 5% per year.
- D) less promising because the costs of ecosystem damage and pollution are not counted.

Answer: <https://biology-forums.com/index.php?topic=259347>

Question 1427

The longevity of nuclear power plants has averaged about

- A) 20-25 years due to unexpectedly high levels of corrosion and embrittlement.
- B) 40-50 years, longer than imagined, because neutrons tend to stabilize the building materials.
- C) 10 years, only about 25% of their expected life, due to the need for new government-mandated safety designs.
- D) 40 years, as expected, due to routine maintenance and the replacement with new longer-lasting materials.

Answer: <https://biology-forums.com/index.php?topic=259284>

Question 1428

The best long-term solution to the pressing energy problems in the United States is

- A) finding new sources of oil in the United States.
- B) turning to fuels buried in our vast national forests.
- C) increased reliance upon coal.
- D) developing non-fossil fuel resources.

Answer: <https://biology-forums.com/index.php?topic=259215>

Question 1429

One of China's current strategies to deal with its water shortage is to

- A) illegally tap water resources of neighboring nations.
- B) import more water intensive crops from the U.S., which has more water.
- C) develop the technology for seeding clouds to produce more rain.
- D) ask rural farmers to exploit and decontaminate deep underground aquifers.

Answer: <https://biology-forums.com/index.php?topic=258774>

Question 1430

A pharmacist asks a mother about a new prescription for an antibiotic, wanting to be sure that the drug is for the mother. The pharmacist is most likely concerned because

- A) antibiotics do not typically work on children.
- B) most types of antibiotics prescribed to an adult will likely kill a child.
- C) a normal dosage for an adult can be toxic to a child.
- D) a normal child's dosage may be toxic to an adult.

Answer: <https://biology-forums.com/index.php?topic=256457>

Question 1431

Which of the following components of MSW has most recently shown the greatest increase?

- A) glass
- B) e-waste
- C) plastics
- D) paper

Answer: <https://biology-forums.com/index.php?topic=257199>

Question 1432

Based upon soil particle size, the largest to smallest are

- A) sand, silt, and clay.
- B) sand, clay, and silt.
- C) clay, sand, and silt.
- D) silt, sand, and clay.

Answer: <https://biology-forums.com/index.php?topic=258875>

Question 1433

The movement of the water through this plant involves

- A) transpiration and stomata in the leaves.
- B) transpiration and stomata in the roots.
- C) infiltration and high soil fertility.
- D) infiltration and photosynthesis in the leaves.

Answer: <https://biology-forums.com/index.php?topic=258902>

Question 1434

Discussing the consequences of global climate change at a conference, representatives of a developing nation suggest that those nations that contribute the most greenhouse gases (GHGs) to the atmosphere should contribute the most to paying for adaptive responses worldwide. Further, this representative pointed out that her poor country contributes less than 1% of the annual GHGs and has less than 0.1% of the world's wealth. This representative's appeal represents

- A) the precautionary principle.
- B) the polluter pays and equity principles.
- C) an argument for mitigation instead of adaptation.
- D) stages 2 and 3 of the climate change skeptics' responses.

Answer: <https://biology-forums.com/index.php?topic=256685>

Question 1435

The relationship between the dung beetles and the disease-carrying flies is a type of

- A) mutualism.
- B) commensalism.
- C) intraspecific competition.
- D) interspecific competition.

Answer: <https://biology-forums.com/index.php?topic=258259>

Question 1436

A landfill that was abandoned about 20 years ago has been eroding. Trees and grasses that had grown on the surface have died, the soil is eroding away, and buried wastes are now exposed at the surfaces. Nobody has been doing anything with the landfill for years. Most likely, these problems are the result of

- A) rodents trying to dig up the buried wastes.
- B) biogas seeping to the surface.
- C) settling of the earth as the buried wastes decompose.
- D) leachate generation from the buried wastes.

Answer: <https://biology-forums.com/index.php?topic=257087>

Question 1437

Oil production in Alaska

- A) peaked in 1985 and has declined steadily ever since.
- B) continues to increase as new oil fields are added.
- C) has remained steady ever since the construction of the Alaskan oil pipeline.
- D) has ended and has been completely replaced by natural gas production.

Answer: <https://biology-forums.com/index.php?topic=259179>

Question 1438

Today, which of the following regions relies most on the importation of food?

- A) North America
- B) Asia and Africa
- C) Australia and New Zealand
- D) Western Europe

Answer: <https://biology-forums.com/index.php?topic=259004>

Question 1439

In the winter in Wisconsin, a person going to work at 8 AM parks her car so that it is in bright sunlight in the afternoon. When she gets in her car about 5 PM, the inside is warm because of

- A) conductive solar heating.
- B) active solar heating.
- C) radioactive solar heating.
- D) passive solar heating.

Answer: <https://biology-forums.com/index.php?topic=259325>

Question 1440

Rachel Carson's book Silent Spring showed that

- A) pesticides like DDT were ineffective in killing crop pests.
- B) scientific expertise can help shape positive environmental policies.
- C) industries producing harmful chemicals welcomed scientific evaluation of their environmental impact.
- D) biodiversity could be increased with cautious use of DDT.

Answer: <https://biology-forums.com/index.php?topic=256445>

Question 1441

The evolution of pesticide resistance, resurgence, and secondary-pest outbreaks are only some of the problems that result from reliance on

- A) crop rotation and biological controls, which disrupt the natural dynamics of ecosystems.
- B) pesticides, creating the need to alternate between a pesticide and an herbicide every other year.
- C) rodenticides to kill weeds and insect pests and prevent the spread of viral diseases.
- D) pesticides, creating a never-ending pesticide treadmill requiring new pest-fighting strategies.

Answer: <https://biology-forums.com/index.php?topic=259065>

Question 1442

After cleaning up a lawn mower, Jason piles up a bunch of gas and oil soaked rags in the corner of the garage. During the night, the rags undergo spontaneous combustion, setting fire to the garage before the fire could be extinguished. According to HAZMAT guidelines, these rags exhibited a dangerous level of

- A) ignitability.
- B) toxicity.
- C) neutrality.
- D) corrosivity.

Answer: <https://biology-forums.com/index.php?topic=257231>

Question 1443

The WHO World Health Report uses the DALY as a common unit of different types of risks. The DALY is a measurement of the loss of

- A) one percentage of average life expectancy.
- B) life per 1,000 people per year.
- C) one healthy day in a person's life.
- D) one healthy year in a person's life.

Answer: <https://biology-forums.com/index.php?topic=256539>

Question 1444

In most developed countries, nonrecycled MSW is more likely to be

- A) burned when the population densities are high.
- B) burned when the population densities are low.
- C) buried when the population densities are high.
- D) buried when the population is located near an ocean.

Answer: <https://biology-forums.com/index.php?topic=257070>

Question 1445

A rapidly growing population in sub-Saharan Africa continues to produce high levels of poverty, hunger, and child mortality. You want to give to a charitable organization that is working to address these problems. To make the greatest impact, you decide to support the African

- A) Neolithic Revolution.
- B) Gene Revolution.
- C) Industrial Revolution.
- D) Green Revolution.

Answer: <https://biology-forums.com/index.php?topic=258971>

Question 1446

In Alaska, some coastal areas are under threat from climate change because

- A) warmer air temperatures have drastically altered agricultural patterns.
- B) much of the Aleutian archipelago has already been submerged.
- C) summer sea ice and permafrost have melted, increasing wave action and soil instability.
- D) traditional food fish have migrated elsewhere because of warmer ocean temperatures.

Answer: <https://biology-forums.com/index.php?topic=256552>

Question 1447

Fossil fuels represent

- A) a large amount of paleozoic and mesozoic biomass buried anaerobically millions of years ago.
- B) natural deposits of organic materials that formed long before life on Earth evolved.
- C) the remains of fossil animals that lived a few thousand years ago.
- D) sustainable sources of energy that are underused today.

Answer: <https://biology-forums.com/index.php?topic=259164>

Question 1448

Some city water treatment facilities combine storm water and sanitary sewage systems. During heavy storms, these treatment facilities may be overwhelmed with water, and untreated storm water mixes with sewage and flows directly back into the streams and rivers where treated water usually returns. What might be the best way to address this problem?

- A) do not collect rainwater in storm sewers and let it just accumulate on the roads
- B) collect and treat storm sewer and sanitary sewage systems separately
- C) drain the sewage system onto a field near the stream or river
- D) use the excess sewer water as a source of water for the city

Answer: <https://biology-forums.com/index.php?topic=258826>

Question 1449

Which of the following is more related to water quality than water quantity?

- A) construction of dams
- B) sewage treatment facilities
- C) crop irrigation
- D) depletion of aquifers

Answer: <https://biology-forums.com/index.php?topic=258777>

Question 1450

Examine the food web described by this figure. What would happen if the population of zooplankton decreased suddenly by 80% and stayed low for several years?

- A) the arctic cod population would decrease
- B) the phytoplankton population would decrease
- C) the bearded seal population would increase
- D) the beluga whale population would increase

Answer: <https://biology-forums.com/index.php?topic=258332>

Question 1451

About one hundred years ago, cities began to address the problems of sewage disposal by dumping sewage into nearby rivers via storm water drainage systems. One of the results of this strategy was that

- A) cities no longer needed to treat drinking water that was drawn from nearby river systems.
- B) the quality of the water in the local rivers and streams greatly improved.
- C) people living upriver of these cities were more likely to experience contamination of their drinking water sources.
- D) people living downriver of these cities were more likely to experience contamination of their drinking water sources.

Answer: <https://biology-forums.com/index.php?topic=256905>

Question 1452

Which one of the following ecosystem services has been enhanced most by human use?

- A) capture fisheries
- B) pollination
- C) crops
- D) wood fuel

Answer: <https://biology-forums.com/index.php?topic=257982>

Question 1453

Biodiesel is often produced using

- A) any type of cellulosic feedstock.
- B) corn-based ethanol.
- C) recycled vegetable oil used in cooking food.
- D) solar and wind turbine sources of energy.

Answer: <https://biology-forums.com/index.php?topic=259373>

Question 1454

Examine this figure. Which of the following events may have contributed the most to the decline in the United States fertility rates after 1970?

- A) the Vietnam war
- B) improved methods of family planning
- C) the civil rights movement
- D) the lowering of the voting age to 18 years old in 1971

Answer: <https://biology-forums.com/index.php?topic=258671>

Question 1455

Because of the abundance of natural gas in the United States, we should expect to see

- A) more gas-powered vehicles and industries.
- B) further decreases in the price of petroleum.
- C) many more U.S. LNG terminals planned and constructed.
- D) an increase in greenhouse gases as we shift away from coal and oil as primary fuels.

Answer: <https://biology-forums.com/index.php?topic=259204>

Question 1456

In general, K-strategists have a

- A) type I survivorship pattern, and r-strategists have a type III survivorship pattern.
- B) type II survivorship pattern, and r-strategists have a type I survivorship pattern.
- C) type II survivorship pattern, and r-strategists have a type III survivorship pattern.
- D) type III survivorship pattern, and r-strategists have a type II survivorship pattern.

Answer: <https://biology-forums.com/index.php?topic=258249>

Question 1457

Brightly colored antique children's toys from before 1970 may be colored with paints that are contaminated with

- A) heavy metals.
- B) toxic plastic compounds.
- C) synthetic organic compounds.
- D) synthetic inorganic compounds.

Answer: <https://biology-forums.com/index.php?topic=257247>

Question 1458

Perpetual motion machines without an additional energy input cannot exist because

- A) energy cannot be created or destroyed.
- B) in any energy conversion, some energy is lost.
- C) energy cannot be converted from one form to another.
- D) kinetic energy requires an input of light energy.

Answer: <https://biology-forums.com/index.php?topic=258193>

Question 1459

The source of the acidity blamed for killing Oregon oyster larvae was

- A) dissolved atmospheric carbon dioxide from fossil fuel combustion.
- B) acidic runoff from nearby industries.
- C) acidic precipitation from nearby coal-burning industries.
- D) acids released by natural decomposition of organic wastes.

Answer: <https://biology-forums.com/index.php?topic=257993>

Question 1460

Using ice core samples and analyses, researchers have discovered that over the past 800,000 years

- A) glaciers were greatest when greenhouse gases increased the most.
- B) the Earth has gradually been warming and sea levels have been rising.
- C) there is a strong correlation between global temperatures and greenhouse gases.
- D) atmospheric levels of methane and carbon dioxide have steadily been increasing.

Answer: <https://biology-forums.com/index.php?topic=256613>

Question 1461

Chronic pesticide exposure has been clearly linked to

- A) malaria and bubonic plague.
- B) viral outbreaks.
- C) cancer, neurological disorders, and infertility.
- D) heart disease and strokes.

Answer: <https://biology-forums.com/index.php?topic=259069>

Question 1462

Most persistent organic pollutants enter food webs at the level of

- A) primary producers.
- B) primary consumers.
- C) secondary consumers.
- D) decomposers and detritus feeders.

Answer: <https://biology-forums.com/index.php?topic=257207>

Question 1463

Further acidification of the environment could be prevented by policies that

- A) required catalytic converters on all vehicles sold in the United States.
- B) switched 50% of U.S. vehicles to hybrid technologies.
- C) greatly reduced the acid-producing emissions of coal-burning power plants.
- D) greatly reduced the acid-producing emissions of nuclear power plants.

Answer: <https://biology-forums.com/index.php?topic=256866>

Question 1464

If the precautionary principle had been applied to the evidence of the dangerous health effects of smoking tobacco from the 1950s to the 1970s,

- A) we would still be waiting for the final word and no government actions would have been taken.
- B) tobacco companies would have been given much more time to research the health effects before any government regulations were passed.
- C) cigarette manufacturers would have been required to demonstrate by acceptable scientific procedures that smoking was safe and government regulations would have come much earlier.
- D) more tobacco products would have been sold.

Answer: <https://biology-forums.com/index.php?topic=256693>

Question 1465

Which of the following is the most accurate conclusion about these results?

- A) East fields are more likely than west fields to have problems with grasshoppers eating corn crops.
- B) If a cornfield is sprayed with pesticide Z, it will have fewer grasshoppers 10 weeks later.
- C) Pesticide Z is unable to kill grasshoppers and is not suitable for the use in modern agriculture.
- D) Pesticide Z is a good way to control most insect infestations on fields of corn, wheat, or oats.

Answer: <https://biology-forums.com/index.php?topic=258024>

Question 1466

On May 18, 1980, a massive eruption of Mt. St. Helens in Washington State sent a huge plume of ash high into the air. Over the next two weeks, the ash traveled around the world. To move that far, the ash would have to

- A) dissolve in the nitrogen of the air.
- B) combine with moisture in the troposphere.
- C) bind to aerosols in the lithosphere.
- D) reach into the stratosphere.

Answer: <https://biology-forums.com/index.php?topic=256740>

Question 1467

The structure and maintenance of all ecosystems results from the

- A) bacteria, fungi and soils in that ecosystem.
- B) types of plants in that ecosystem.
- C) types of animals in that ecosystem.
- D) the totality of organisms in that ecosystem.

Answer: <https://biology-forums.com/index.php?topic=258406>

Question 1468

Rainwater flows quickly over a grassland, filling lazy streams and soaking deeply into the ground. Days later, vegetation near seeps grows quickly and the grassland seems to come to life. This scene best represents which of the following two loops?

- A) precipitation loop and evapotranspiration loop
- B) surface runoff loop and groundwater loop
- C) precipitation loop and groundwater loop
- D) surface runoff loop and evapotranspiration loop

Answer: <https://biology-forums.com/index.php?topic=258810>

Question 1469

At the current rates of use, the United States has enough coal to last the next

- A) 20 years.
- B) 40 years.
- C) 100 years.
- D) 230 years.

Answer: <https://biology-forums.com/index.php?topic=259206>

Question 1470

Biomes characterize regions with similar types of

- A) vegetation and climatic conditions.

- B) animals and plants.
- C) soil, water systems, and animals.
- D) rocks, soil, minerals, and water.

Answer: <https://biology-forums.com/index.php?topic=258319>

Question 1471

The establishment of the mosses on bare rock and eventual addition of grasses represents

- A) a climax ecosystem.
- B) primary succession.
- C) secondary succession.
- D) intermediate succession.

Answer: <https://biology-forums.com/index.php?topic=258368>

Question 1472

A friend who was raised in a Chicago suburb was describing what her life was like growing up. Then she said something very surprising and unexpected. She said that in her suburban town,

- A) everybody kept complaining about the rising price of gasoline.
- B) she saw very little wildlife except a few squirrels and common birds.
- C) just about everybody bought locally raised vegetables at the farmer's market.
- D) most of the people she knew had never seen a farm.

Answer: <https://biology-forums.com/index.php?topic=257415>

Question 1473

Which of the following would most likely cause the greatest harm to wild Giant Panda populations in China?

- A) the introduction of beetles that eat bamboo
- B) captive breeding of giant pandas already in zoos throughout the world
- C) restricting logging in regions within the current Giant Panda range
- D) promoting the giant panda as a national symbol of China

Answer: <https://biology-forums.com/index.php?topic=258135>

Question 1474

A rural farmer most likely obtains drinking water by drilling a deep well to use

- A) gravitational water that has percolated through soil and accumulated as groundwater.
- B) gravitational water that is retained by the soil and accumulated just above the water table.
- C) capillary water found in surface waters, located above the water table.
- D) capillary water that has percolated through soil and accumulated below the groundwater.

Answer: <https://biology-forums.com/index.php?topic=258804>

Question 1475

Which of the following represents a resilience mechanism?

- A) crown fires resulting from many years of fire suppression
- B) the emergence of a meadow in a recently burned forest
- C) soil erosion resulting from burned soil washing away from a forest floor
- D) burned trees accumulating on a forest floor after a fire

Answer: <https://biology-forums.com/index.php?topic=258376>

Question 1476

Which of the following activities have contributed the greatest amount of carbon dioxide into the atmosphere over the past 100 years?

- A) increased farming and production of grains
- B) increased reliance upon coal, oil, and natural gas
- C) deforestation of rain forests and other parts of the world
- D) volcanic eruptions and widespread forest fires

Answer: <https://biology-forums.com/index.php?topic=256598>

Question 1477

Oil exploration in North America

- A) has been more intensely explored than any other continental landmass.
- B) is yielding new sources that are slowly reducing the percentage of oil that must be imported.
- C) is finding new reserves at increasingly higher success rates for each exploratory drilling event.
- D) is no longer cost-effective and has been discontinued since the early 1970s.

Answer: <https://biology-forums.com/index.php?topic=259189>

Question 1478

- Compared to the generation of electricity using coal, nuclear power
- A) contributes more to global climate change.
 - B) generates no sulfur dioxide or carbon dioxide emissions.
 - C) generates no sulfur dioxide but more carbon dioxide emissions.
 - D) will run out of fuel in about 40 years.

Answer: <https://biology-forums.com/index.php?topic=259228>

Question 1479

Apple Computers currently offers to recycle your old computer and monitor (regardless of the brand or place of purchase) when you purchase a new Apple computer (some restrictions apply, see the Apple web site for details). This program represents an example of

- A) WTE.
- B) EPR and product stewardship.
- C) PAYT.
- D) NIMBY.

Answer: <https://biology-forums.com/index.php?topic=257191>

Question 1480

In general,

- A) food chains consist of many interrelated food webs.
- B) food chains are interconnected to form food webs.
- C) food webs consist of either consumers or producers.
- D) food webs usually consists of 8-10 trophic levels.

Answer: <https://biology-forums.com/index.php?topic=258320>

Question 1481

Subsistence farming

- A) uses modern technology to cultivate just enough food for a family or village.
- B) is no longer practiced in most of the world.
- C) is the traditional agriculture practiced by humans 12,000 years ago.
- D) is carried on large parcels of land that produce crops sold on the international market.

Answer: <https://biology-forums.com/index.php?topic=258955>

Question 1482

Attention to which of the following would provide the greatest impact to all of the Millennium Development Goals?

- A) protein content of foods
- B) clean water and modern sanitation
- C) prevention and treatment of injury
- D) maternal pre-natal and post-natal care for mothers and infants

Answer: <https://biology-forums.com/index.php?topic=258757>

Question 1483

The development of golden rice is an attempt to

- A) increase the caloric value of rice based foods.
- B) fight insect pests that feed on rice plants.
- C) increase the levels of vitamin A in rice.
- D) increase the levels of iron in rice.

Answer: <https://biology-forums.com/index.php?topic=258998>

Question 1484

Compared to the windward side, the leeward side of this mountain range will most likely have

- A) lower levels of transpiration and precipitation.
- B) higher levels of precipitation and lower levels of transpiration.
- C) higher levels of humidity.
- D) lower levels of sunshine.

Answer: <https://biology-forums.com/index.php?topic=258802>

Question 1485

- Nuclear power plants in use today rely on
- A) fission reactions to generate heat to boil water.
 - B) fission reactions to directly generate electricity.
 - C) fusion reactions to generate heat to boil water.
 - D) fusion reactions to directly generate electricity.

Answer: <https://biology-forums.com/index.php?topic=259235>

Question 1486

- Which of the following components of the atmosphere are most helpful in the cleansing of the air?
- A) hydroxyl radicals
 - B) ozone
 - C) radon
 - D) sulfur dioxide

Answer: <https://biology-forums.com/index.php?topic=256754>

Question 1487

- The greatest human impacts on ocean ecosystems are concentrated
- A) in the northern hemisphere.
 - B) around Australia.
 - C) around South America.
 - D) in the eastern Pacific.

Answer: <https://biology-forums.com/index.php?topic=258571>

Question 1488

- The Resource Conservation and Recovery Act and its subsequent amendments generally regulate
- A) disposal of solid wastes on land.
 - B) what materials can be recycled.
 - C) the types of materials that can be used in manufactured products.
 - D) what pollutants can be discharged into the air.

Answer: <https://biology-forums.com/index.php?topic=257325>

Question 1489

- Parasites
- A) affect their hosts in a density-independent manner.
 - B) and their hosts represent a type of intraspecific competition.
 - C) occur in animals but not plants.
 - D) may live inside or outside of their host.

Answer: <https://biology-forums.com/index.php?topic=258265>

Question 1490

- The World Bank (initially) and measures of GDP did not include the economic value of
- A) ecosystem services such as the breakdown of wastes, climate regulation, and oxygen production.
 - B) the regeneration of many natural resources by sustainable processes in which natural resources are renewed.
 - C) the migration of many animal species from one region to another, replenishing the harvest of these natural resources.
 - D) increases in the prices paid for natural products such as fish, wood, and fossil fuels.

Answer: <https://biology-forums.com/index.php?topic=258088>

Question 1491

- A population would be expected to grow if
- A) immigration increased and deaths and emigration decreased.
 - B) immigration and emigration increased by the same number of organisms.
 - C) emigration and death rates stayed the same and immigration decreased.
 - D) births decreased by 1% and emigration increased by 8%.

Answer: <https://biology-forums.com/index.php?topic=258232>

Question 1492

Lyme disease is a serious bacterial infection of humans caused by the bite of infected deer ticks. Therefore, the vector of Lyme disease is

- A) bacteria.
- B) ticks.
- C) deer.
- D) people.

Answer: <https://biology-forums.com/index.php?topic=256500>

Question 1493

Compared to an ecosystem with just a single stage of succession, an ecosystem with a variety of successional stages

- A) is more likely to experience forest fires.
- B) has greater biodiversity.
- C) is less likely to experience erosion.
- D) has a much lower rate of primary productivity.

Answer: <https://biology-forums.com/index.php?topic=258371>

Question 1494

A soil that has become mineralized will have

- A) more earthworms, more humus, and more sand.
- B) fewer earthworms, less humus, and more sand, silt, or clay.
- C) more detritus, more fungi, but less aeration.
- D) more detritus, more bacteria, but less water-holding capacity.

Answer: <https://biology-forums.com/index.php?topic=258916>

Question 1495

In nuclear power plants in the United States, near-pure water functions as

- A) a moderator, heating up as it slows down neutrons, which triggers additional fission reactions.
- B) a moderator, cooling down as it slows down neutrons that could cause fusion reactions.
- C) an inhibitor, preventing neutrons from heating up and causing fusion reactions.
- D) an inhibitor, preventing neutrons from cooling down and stopping the fission reactions.

Answer: <https://biology-forums.com/index.php?topic=259243>

Question 1496

Incorporation of passive safety features in nuclear power plants would reduce the chances of a disaster by reducing the chances of

- A) human error.
- B) retraction of the control rods.
- C) terrorist attacks.
- D) design flaws.

Answer: <https://biology-forums.com/index.php?topic=259278>

Question 1497

If any component of the atmosphere causes an increase in the retention of energy, it

- A) will leave the planetary albedo unaffected.
- B) has a positive value of radiative forcing.
- C) has a negative value of radiative forcing.
- D) will help mitigate global warming.

Answer: <https://biology-forums.com/index.php?topic=256674>

Question 1498

Health problems associated with indoor air pollution in developing countries is most commonly associated with

- A) chlorine gas released from tap water.
- B) the use of biofuels for cooking and heating.
- C) poor hygiene and sanitation inside the home.
- D) the widespread use of pesticides to control disease vectors.

Answer: <https://biology-forums.com/index.php?topic=256511>

Question 1499

The light color of the dying coral in this photo is most likely the result of

- A) increased levels of sunlight.
- B) increased ocean temperatures.
- C) increased pH of the ocean.
- D) shifts in ocean currents.

Answer: <https://biology-forums.com/index.php?topic=258590>

Question 1500

Because of rising environmental and social costs of economic activity, the

- A) gap between the GDP and GPI has increased.
- B) gap between the GDP and GPI has decreased.
- C) GDP has remained stable while the GPI has grown.
- D) GDP has declined while the GPI has increased.

Answer: <https://biology-forums.com/index.php?topic=258095>

Question 1501

Developing countries have increasingly become involved in the integrated global economy primarily due to

- A) increased use of vaccinations.
- B) improvements in sewage and sanitation.
- C) constructions of dams and irrigation canals.
- D) increased use of technology.

Answer: <https://biology-forums.com/index.php?topic=258715>

Question 1502

The burners on an electric stove convert

- A) electricity into heat, which cooks the food.
- B) heat into electricity, which cooks the food.
- C) matter into heat to generate electricity that transforms the matter in food into energy.
- D) matter into electricity that generates heat that transforms the energy in food into matter.

Answer: <https://biology-forums.com/index.php?topic=258185>

Question 1503

Silts and loams are the best soil textures for plant growth because they have

- A) only moderate soil constraints.
- B) moderate infiltration but low aeration.
- C) moderate aeration but low infiltration.
- D) poor infiltration and aeration.

Answer: <https://biology-forums.com/index.php?topic=258907>

Question 1504

Increases in ocean temperatures often result in coral bleaching, in which

- A) the symbiotic relationship between corals and their algae is disrupted.
- B) the calcium carbonate of corals is dissolved away, leaving just the soft animals behind.
- C) the water becomes so cloudy that no light can reach the symbiotic algae in corals.
- D) high levels of chlorine are released from the corals, killing the fish that swim by.

Answer: <https://biology-forums.com/index.php?topic=258585>

Question 1505

Indonesia represents a nation in which

- A) women are now having smaller families because of economic and social service constraints.
- B) there are excellent social services and employment opportunities for the middle income families.
- C) there is a high level of affluence, and women marry late and have large families.
- D) most people are subsistence farmers, poverty is widespread and both family size and child mortality are very high.

Answer: <https://biology-forums.com/index.php?topic=258608>

Question 1506

Mycorrhizae are

- A) pathogenic soil bacteria and fungi that destroy plant roots.
- B) common in soils that lack a functional humus.
- C) symbiotic fungi that increase soil nutrient uptake in plant roots.
- D) important soil millipedes that increase aeration of topsoil.

Answer: <https://biology-forums.com/index.php?topic=258919>

Question 1507

Photovoltaic cells are commonly used to power

- A) lawn mowers.
- B) lighthouses.
- C) calculators.
- D) industrial manufacturing.

Answer: <https://biology-forums.com/index.php?topic=259332>

Question 1508

It is common to hear about the huge reproductive potential of some organisms. Perhaps someone has mentioned that if all of the eggs of houseflies were to survive to maturity, the world would soon be covered in flies. This does not happen because, in reality,

- A) the biotic potential would be limited by environmental resistance.
- B) the biotic potential would continue to increase.
- C) environmental resistance would increase, increasing the carrying capacity.
- D) house flies would find it too difficult to locate a potential mate.

Answer: <https://biology-forums.com/index.php?topic=258243>

Question 1509

The latest strategic theme of the World Bank is best summarized as

- A) plenty amidst poverty.
- B) investment where poverty is greatest and resources are plenty.
- C) technology to encourage economic development.
- D) development with environmental sustainability.

Answer: <https://biology-forums.com/index.php?topic=258731>

Question 1510

In the processes of biomagnification and bioaccumulation described in the figure,

- A) the pesticide has to be non-biodegradable (persistent) for the processes to occur.
- B) the greatest levels of mortality are in the producers and first level consumers.
- C) the concentrations may not be fatal if the top consumers are very small.
- D) consumers at the top of the food chain will develop rapid pesticide resistance.

Answer: <https://biology-forums.com/index.php?topic=259066>

Question 1511

The relationship between the dung beetles and the cattle is a type of

- A) mutualism.
- B) parasitism.
- C) intraspecific competition.
- D) interspecific competition.

Answer: <https://biology-forums.com/index.php?topic=258260>

Question 1512

Which of the following concepts are most closely associated to each other?

- A) biological wealth and introduced species
- B) biological wealth and biodiversity
- C) anthropocentric values and extinction
- D) intrinsic value and anthropocentric value

Answer: <https://biology-forums.com/index.php?topic=258408>

Question 1513

Firewood burns better than rocks because

- A) firewood has more potential energy.
- B) firewood has more kinetic energy.
- C) rocks have more potential energy.
- D) rocks have more kinetic energy.

Answer: <https://biology-forums.com/index.php?topic=258203>

Question 1514

Wetlands store and release water most like which component of the water cycle?

- A) clouds forming in the sky
- B) groundwater reservoirs

- C) evapotranspiration from dense vegetation
- D) glaciers and polar ice caps

Answer: <https://biology-forums.com/index.php?topic=258811>

Question 1515

Legal hunters in the United States

- A) often object to limits on the number of prey they can kill and the times when they can hunt.
- B) pay hunting fees that help manage the populations of their prey.
- C) have opposed most laws that protect the very habitat where their prey survive.
- D) are mostly interested in the intrinsic value of their prey.

Answer: <https://biology-forums.com/index.php?topic=258491>

Question 1516

Being exposed to secondhand smoke by living with a person who smokes

- A) only poses a health risk for those in the household who smoke.
- B) has not been shown to increase the health risks of nonsmokers in the home.
- C) is now known to increase the chances of cancer of everyone in the home.
- D) increases the risk of cardiovascular disease but not cancer for others living in the home.

Answer: <https://biology-forums.com/index.php?topic=256485>

Question 1517

Compaction of soil in a garden harms plants by

- A) increasing aeration, decreasing infiltration, and increasing runoff.
- B) decreasing aeration, decreasing infiltration, and increasing runoff.
- C) increasing aeration, increasing infiltration, and decreasing runoff.
- D) decreasing aeration, increasing infiltration, and decreasing runoff.

Answer: <https://biology-forums.com/index.php?topic=258904>

Question 1518

Which of the following is a major anthropogenic source of volatile organic compounds (VOCs)?

- A) coal-fired electrical generating plants
- B) agricultural fertilizers
- C) incompletely combusted fossil fuels from vehicle exhaust
- D) nuclear power plants

Answer: <https://biology-forums.com/index.php?topic=256772>

Question 1519

Roundup Ready corn is resistant to the herbicide Roundup (glyphosate). One of the greatest concerns about this transgenic Roundup Ready corn is the

- A) lower yields produced by Roundup Ready corn.
- B) evolution of herbicide resistance in weeds that commonly infect cornfields.
- C) transfer of Roundup resistance to other crops, such as soybeans.
- D) eventual loss of this trait from Roundup Ready corn due to hybridization.

Answer: <https://biology-forums.com/index.php?topic=258991>

Question 1520

Which of the following terms best applies to the practice of environmental science?

- A) highly specialized
- B) integrative and interdisciplinary
- C) abstract
- D) theoretical

Answer: <https://biology-forums.com/index.php?topic=257998>

Question 1521

According to the U.S. Sprawlometer, the most sprawling and congested area is

- A) New York.
- B) Los Angeles.
- C) Greensboro, NC.
- D) Riverside, CA.

Answer: <https://biology-forums.com/index.php?topic=257438>

Question 1522

Carbon reduction and capture and storage systems are currently

- A) widely used in power plants that burn oil, natural, gas, and coal.
- B) not possible with available technology.
- C) costly and experimental, but promising.
- D) only available for power plants that burn natural gas.

Answer: <https://biology-forums.com/index.php?topic=259208>

Question 1523

Just two X-rays are taken, and the time of exposure was quite limited. According to the U.S. Nuclear Regulatory Agency, your radiation exposure for the X-rays was

- A) below any level to cause harm.
- B) minimal, but does pose a slight health risk.
- C) harmless, because medical radiation is not the same dangerous energy as radiation from nuclear energy.
- D) a different type of radiation that does not cause biological damage.

Answer: <https://biology-forums.com/index.php?topic=259256>

Question 1524

The current generation of ethanol as a biofuel requires

- A) sugars and the process of fermentation.
- B) any plant material and the process of fermentation.
- C) manure, water, and aerobic bacteria.
- D) bioengineered bacteria and any form of cellulose.

Answer: <https://biology-forums.com/index.php?topic=259366>

Question 1525

Newly formed species typically have experienced different

- A) numbers of offspring.
- B) life spans.
- C) dietary habits.
- D) selective pressures.

Answer: <https://biology-forums.com/index.php?topic=258297>

Question 1526

In a food chain consisting of toxic soil, toxic grasses, rabbits that eat the toxic grass, and hawks that eat the rabbits, the highest concentrations of toxins would occur in the

- A) tissues of the grasses.
- B) tissues of the rabbits.
- C) tissues of the hawks.
- D) soils.

Answer: <https://biology-forums.com/index.php?topic=259077>

Question 1527

Rust belt areas have resulted partly from

- A) abandoning urban industrial areas as workers left for better jobs.
- B) increasing severity of acid rain in large industrial areas.
- C) increased reliance on domestic industry and the decline of imports.
- D) federal funding that favored northern U.S. industrial areas over southern areas.

Answer: <https://biology-forums.com/index.php?topic=257399>

Question 1528

Over the past 40 years in the United States, the number of vehicles on the road has

- A) increased, the number of vehicle miles has increased, and the pollution per car has increased.
- B) increased, the number of vehicle miles has increased, but the pollution per car has decreased.
- C) decreased but the number of vehicle miles has increased, and the pollution per car has increased.
- D) decreased, the number of vehicle miles has decreased, and the pollution per car has decreased.

Answer: <https://biology-forums.com/index.php?topic=256848>

Question 1529

The "baby boom echo," represented by people who are 20-29 years old in 2010, is the result of

- A) increased fertility of the baby boom generation.
- B) reduced infant mortality rates.
- C) reproduction of the baby boom generation.
- D) increased use of birth control in the 1970s.

Answer: <https://biology-forums.com/index.php?topic=258669>

Question 1530

If current energy consumption trends continue and the per capita income of the world increased dramatically, we would expect that

- A) global climate change will be a greater problem.
- B) literacy levels to decrease.
- C) respiratory diseases in cities will increase.
- D) land and labor will no longer be economic factors.

Answer: <https://biology-forums.com/index.php?topic=258071>

Question 1531

The destruction of the ozone layer primarily occurs in the

- A) mesosphere.
- B) thermosphere.
- C) stratosphere.
- D) troposphere.

Answer: <https://biology-forums.com/index.php?topic=256558>

Question 1532

As indicated in this figure, the most expensive period of pollution control is from years

- A) 0-5 while the least expensive is in years 20-25.
- B) 0-5 while the least expensive is in years 5-10.
- C) 20-25 while the least expensive is in years 0-5.
- D) 10-15 while the least expensive is in years 15-20.

Answer: <https://biology-forums.com/index.php?topic=258121>

Question 1533

Transgenic plants are generally different from traditional hybrid plants produced hundreds of years ago, because transgenic plants may

- A) contain genes from animals or bacteria.
- B) contain genetic material from different species.
- C) have new traits not found in their ancestral species.
- D) not be used as sources of human food.

Answer: <https://biology-forums.com/index.php?topic=258983>

Question 1534

Private conservation efforts to protect against the private development of land have relied upon the formation of

- A) new national parks.
- B) federal wilderness areas.
- C) land trusts.
- D) city parks.

Answer: <https://biology-forums.com/index.php?topic=258603>

Question 1535

The parts of MSW that can be composted include

- A) most plastics.
- B) most hazardous wastes.
- C) yard wastes and food residues.
- D) finely shredded aluminum and steel.

Answer: <https://biology-forums.com/index.php?topic=257183>

Question 1536

Which of the following items experiences the lowest levels of recycling?

- A) aluminum containers
- B) glass containers
- C) thin plastic grocery bags
- D) newspapers

Answer: <https://biology-forums.com/index.php?topic=257173>

Question 1537

What do wastewater treatment facilities primarily depend upon for the breakdown of pathogenic organisms and organic materials in wastewater?

- A) lots of chlorine bleach
- B) decomposers and detritus feeders
- C) the neutralizing effects of high levels of oxygen
- D) large amounts of antibiotics and disinfecting chemicals

Answer: <https://biology-forums.com/index.php?topic=256974>

Question 1538

Thailand has experienced a dramatic drop in fertility rate, increased per capita income and an increase in life expectancy between 1960 and 2005. These are all signs that Thailand

- A) will see a surge in population growth.
- B) has undergone demographic transition.
- C) is in the grip of the poverty-population trap.
- D) probably has a low literacy rate among women.

Answer: <https://biology-forums.com/index.php?topic=258690>

Question 1539

The move to curb urban sprawl is also a way to

- A) conserve agricultural and wilderness spaces.
- B) decrease the population density of large cities.
- C) promote faster and more efficient highways and bridges.
- D) promote a car-centered approach to urban development.

Answer: <https://biology-forums.com/index.php?topic=257477>

Question 1540

The mosses changed the environment enough to permit grasses to grow in a process called

- A) sublimation.
- B) facilitation.
- C) regeneration.
- D) improvisation.

Answer: <https://biology-forums.com/index.php?topic=258367>

Question 1541

As of 2010 in the U.S. the amount of yard wastes recovered for composting was

- A) more than 50%.
- B) only about 5%.
- C) nearly 90%.
- D) zero, because the EPA has not yet approved large-scale composting operations for MSW.

Answer: <https://biology-forums.com/index.php?topic=257185>

Question 1542

In general, careful and detailed economic studies indicate that environmental protection helps the environment

- A) but hurts the economy and is bad for jobs.
- B) and produces more jobs but hurts the economy.
- C) and helps the economy but costs the loss of jobs.
- D) and does not hurt the economy or cost a net loss of jobs.

Answer: <https://biology-forums.com/index.php?topic=258113>

Question 1543

The hygiene hypothesis predicts that the lowest levels of asthma should occur in people living in

- A) poor rural families in developing countries.
- B) wealthy families in developing countries.
- C) poor urban families in developed countries.

D) wealthy families in developed countries.

Answer: <https://biology-forums.com/index.php?topic=256515>

Question 1544

The future worldwide use of irrigation

- A) is expected to double in the next 20 years due to increasing demands for food.
- B) is limited by the availability of freshwater, waterlogging, and salinization of soils.
- C) depends on new technologies to extract more groundwater.
- D) will require increased reliance on new hydrogen technologies to produce freshwater.

Answer: <https://biology-forums.com/index.php?topic=258963>

Question 1545

As successional changes occur in an ecosystem, new species take advantage of new conditions. Where do these new species come from?

- A) They evolve from other species in the immediate region.
- B) They come from surrounding ecosystems in other stages of succession.
- C) They are planted by forest rangers managing these forest ecosystems.
- D) The seeds of the new species are carried in by large streams and rivers.

Answer: <https://biology-forums.com/index.php?topic=258370>

Question 1546

The pulp from one tree equals a stack of newspapers about

- A) a half a meter high.
- B) a meter high.
- C) two meters high.
- D) five meters high.

Answer: <https://biology-forums.com/index.php?topic=257166>

Question 1547

In Lake Michigan, resources would include

- A) pH of the water.
- B) temperature of the water.
- C) the salinity of the water.
- D) microscopic algae in the water.

Answer: <https://biology-forums.com/index.php?topic=258156>

Question 1548

In many other developing urban regions of developed nations around the world, suburban sprawl

- A) and the car-dependent lifestyle are both increasing.
- B) is increasing, but commuting is still based on public transportation.
- C) is uncommon, and public transportation systems are still widely used.
- D) is uncommon, but the car-dependent lifestyle is increasing.

Answer: <https://biology-forums.com/index.php?topic=257405>

Question 1549

The sharp decrease in atmospheric ^{14}C in the past decade is directly related to

- A) a drop in global photosynthesis.
- B) increasing methane levels.
- C) decreasing temperatures in the troposphere.
- D) increase in fossil fuel use.

Answer: <https://biology-forums.com/index.php?topic=256679>

Question 1550

Why didn't federal laws limiting pollution of rivers and streams prevent this pollution and these fires?

- A) There were no federal regulations of water pollution at that time.
- B) This pollution went undetected by agents overwhelmed by the amount of work.
- C) The federal laws preventing water pollution did not apply to this specific state, where this occurred.
- D) These industries that polluted the water had been repeatedly fined for polluting and simply continued to ignore the laws.

Answer: <https://biology-forums.com/index.php?topic=256910>

Question 1551

Biomes with precipitation between 10-60 inches per year and seasonal temperature at lower elevations are commonly

- A) coniferous forests.
- B) hot deserts.
- C) grasslands.
- D) tropical rain forests.

Answer: <https://biology-forums.com/index.php?topic=258354>

Question 1552

The kinetic energy of water is at its lowest when

- A) rain forms.
- B) water evaporates.
- C) ice forms.
- D) water percolates through soil.

Answer: <https://biology-forums.com/index.php?topic=258786>

Question 1553

Which of the following is true or accurate about oil shale?

- A) Canada is now producing 500 million barrels of shale-derived oil per year mostly for sale to the U.S.
- B) Canada is contemplating large scale oil shale extraction once the price is competitive with other sources of oil.
- C) The United States has refused to consider a transcontinental pipeline from Canada because of potential environmental damage.
- D) The Canadian oil shale mining program will continue to operate with minimal environmental impact.

Answer: <https://biology-forums.com/index.php?topic=259191>

Question 1554

Challenges in dealing with the growing volume of e-wastes include all of the following except

- A) avoiding outsourcing e-waste to developing nations where workers are not protected from the hazardous materials they handle.
- B) developing the specialized technology for safely processing recyclable e-wastes.
- C) creating public policy to regulate the handling of e-wastes.
- D) developing the emission control for toxic materials when e-wastes are incinerated with other combustible MSW.

Answer: <https://biology-forums.com/index.php?topic=257203>

Question 1555

Flies are destroying your crop despite years of investing in pesticides. Investigating an ecological pest control approach, you learn that the female flies that are killing your crop mate only once, lay their eggs, and then die. In fact, you can purchase sterile male flies to release around your crop to keep these flies from reproducing. Such a strategy represents

- A) cultural control.
- B) natural enemies control.
- C) genetic control.
- D) natural chemical control.

Answer: <https://biology-forums.com/index.php?topic=259100>

Question 1556

In general, high poverty produces

- A) high fertility and greater environmental damage.
- B) low fertility and greater environmental damage.
- C) high fertility and less environmental damage.
- D) low fertility and less environmental damage.

Answer: <https://biology-forums.com/index.php?topic=258711>

Question 1557

The greatest worldwide use of water is for

- A) irrigation.
- B) industry.
- C) human consumption.
- D) washing and flushing toilets.

Answer: <https://biology-forums.com/index.php?topic=258824>

Question 1558

Some of the worst new hazardous waste sites that will require cleanup using Superfund (SARA) money instead of private resources are

- A) military bases.
- B) soil immediately surrounding the buildings of an oil refinery.
- C) in states that border an ocean.
- D) in rural agricultural environments.

Answer: <https://biology-forums.com/index.php?topic=257315>

Question 1559

In the world today,

- A) coal is still the dominant fuel.
- B) coal has largely been replaced by natural gas for energy supplies.
- C) natural gas remains the dominant fuel in the United States.
- D) coal and oil are the primary energy supply in the United States.

Answer: <https://biology-forums.com/index.php?topic=259140>

Question 1560

One at a time, you test how quickly each of the following substances will settle out of water. To measure this property, you separately test each of the following by placing 100 grams of the substance and 500 milliliters of water into a 1 liter jar and screw on the lid tightly. Then you shake the jar violently for 1 minute and set the jar down. Which one of the following would settle the fastest, creating the clearest water in the fastest amount of time?

- A) gravel
- B) clay
- C) silt
- D) sand

Answer: <https://biology-forums.com/index.php?topic=258877>

Question 1561

The Millennium Ecosystem Assessment primarily characterized human impact on

- A) atmospheric carbon dioxide levels.
- B) degradation of the ozone layer.
- C) ecosystem services.
- D) plate tectonics.

Answer: <https://biology-forums.com/index.php?topic=257983>

Question 1562

The Three Gorges Dam

- A) will allow China to have a large surplus of fresh water.
- B) will not require the relocation of people.
- C) is the largest hydroelectric project in the world.
- D) will be coupled with several desalinization plants.

Answer: <https://biology-forums.com/index.php?topic=258845>

Question 1563

Which of the following animals in this figure would be expected to require the largest area per individual animal?

- A) rattlesnakes
- B) hawk
- C) rabbit
- D) coyote

Answer: <https://biology-forums.com/index.php?topic=258342>

Question 1564

In the United States, global climate change skeptics and deniers are largely sorted

- A) along political lines.
- B) according to gender.
- C) according to income levels.
- D) between scientists and non-scientists.

Answer: <https://biology-forums.com/index.php?topic=256687>

Question 1565

Which of the following situations is most likely to have the lowest infiltration-runoff ratio?

- A) a paved parking lot
- B) a mowed soccer field
- C) a beach
- D) a grassland

Answer: <https://biology-forums.com/index.php?topic=258803>

Question 1566

The "silent giant" that feeds most of the world's poor is inefficient because it relies upon

- A) subsistence farming best suited for low population densities in regions with the fastest population growth.
- B) subsistence farming best suited for high population densities in regions with the slowest population growth.
- C) agricultural practices that require the heavy use of fertilizers and pesticides that degrade the environment.
- D) individuals walking over large regions to collect wild fruits, nuts, berries, and wood for fuel.

Answer: <https://biology-forums.com/index.php?topic=258970>

Question 1567

The jet streams in the United States generally flow from west to east because of

- A) ocean currents off the Pacific and Atlantic coastlines.
- B) convection currents between the troposphere and stratosphere.
- C) rotation of the Earth.
- D) high pressure systems generated by the sun striking the North American continent.

Answer: <https://biology-forums.com/index.php?topic=256581>

Question 1568

The mining company operations in the forest will likely lead to the loss of ecosystem services, such as

- A) the depletion of iron ore from the ground.
- B) the shift from logging to mining.
- C) sources of freshwater.
- D) the construction of new roads.

Answer: <https://biology-forums.com/index.php?topic=258397>

Question 1569

The single greatest threat to irrigated agriculture is

- A) groundwater depletion.
- B) global warming.
- C) flooding.
- D) None of the above.

Answer: <https://biology-forums.com/index.php?topic=258847>

Question 1570

Using a broad spectrum chemical pesticide would be counterproductive if you were relying on

- A) cultural control.
- B) natural enemies control.
- C) genetic control.
- D) natural chemical control.

Answer: <https://biology-forums.com/index.php?topic=259102>

Question 1571

The current situations in the Maldives, Tuvalu, and parts of coastal Alaska have raised the need to address

- A) where to locate the refugees from climate change events.
- B) how to generate lawsuits to blame those responsible for climate change.
- C) making models to predict the results of climate change.
- D) how to make fossil fuel electrical generating plants more efficient.

Answer: <https://biology-forums.com/index.php?topic=256554>

Question 1572

Hurricanes and tornadoes are events taking place in the

- A) mesosphere.
- B) thermosphere.
- C) stratosphere.
- D) troposphere.

Answer: <https://biology-forums.com/index.php?topic=256588>

Question 1573

Countries caught in the poverty-population trap have experienced

- A) the benefits of modern medicine but not the benefits of economic development.
- B) the benefits of the green revolution without experiencing a Neolithic revolution.
- C) an environmental revolution but not a medical revolution.
- D) a fertility transition but not the benefits of modern medicine.

Answer: <https://biology-forums.com/index.php?topic=258695>

Question 1574

Which of the following is an example of projects in line with Millennium Development Goals expected to help address poverty in undeveloped countries?

- A) Banks in undeveloped countries make loans to open new restaurants, clothing stores, and shops.
- B) Loans are made to farmers to purchase basic farm equipment such as tractors, plows, fertilizers and wagons and to hire extra workers.
- C) Schools are encouraged to charge fees to help support the purchase of, meals new books and basic supplies.
- D) Elementary schools start serving meals to students from families with the lowest incomes.

Answer: <https://biology-forums.com/index.php?topic=258720>

Question 1575

The 2007 Assessment Report concluded that global climate change is caused at least in part by the

- A) human use of fossil fuels to generate electricity and power engines.
- B) human use of chlorofluorocarbons in refrigeration systems.
- C) harvesting of millions of acres of corn, wheat, and soybeans around the world every year.
- D) depletion of groundwater supplies.

Answer: <https://biology-forums.com/index.php?topic=257984>

Question 1576

As a city moves toward sustainability, the sustainable development typically

- A) reduces the density of the resident population.
- B) capitalizes on the natural resources in the region.
- C) shifts the management of its waste to regions well beyond its borders.
- D) focuses on the needs of the most abundant and most economically successful citizens.

Answer: <https://biology-forums.com/index.php?topic=257481>

Question 1577

Recently, the major causes of acid-generating emission has shifted from

- A) nitrogen oxides to sulfur oxides.
- B) sulfur oxides to nitrogen oxides and ammonia.
- C) carbon dioxide to carbon monoxide.
- D) ozone and PANs to VOCs.

Answer: <https://biology-forums.com/index.php?topic=256802>

Question 1578

Today, many of the old dumps and landfills from past decades are now

- A) festering sites of toxic waste that must be fenced off and restricted.
- B) parks and recreational areas widely used by the public.
- C) being mined for the resources that were buried over several decades.
- D) deep depressions, resulting from the decay of most of the materials that were buried long ago.

Answer: <https://biology-forums.com/index.php?topic=257051>

Question 1579

Water seeping through a landfill

- A) stops the production of biogas.
- B) promotes the decomposition of paper and other biodegradable organics.

- C) helps petroleum-based plastics decompose.
- D) reduces the amount of groundwater contamination.

Answer: <https://biology-forums.com/index.php?topic=257090>

Question 1580

One of the unfortunate consequences of increased costs of disposing of MSW is an increase in

- A) illegal dumping of MSW.
- B) the amount of paper that is recycled.
- C) the generation of electricity from biogas.
- D) the generation of electricity from WTE facilities.

Answer: <https://biology-forums.com/index.php?topic=257116>

Question 1581

Which of the following gases by virtue of its enormous amount in the atmosphere has the greatest impact on global climate change?

- A) methane
- B) nitrous oxide
- C) carbon dioxide
- D) nitrogen

Answer: <https://biology-forums.com/index.php?topic=256596>

Question 1582

All of the following are typically used in developing countries to address water shortages, except

- A) tilling the soil thoroughly and frequently before planting crops.
- B) importing food products from regions that have excess fresh water.
- C) controlling soil erosion.
- D) building small check dams to recharge aquifers.

Answer: <https://biology-forums.com/index.php?topic=258858>

Question 1583

In general, which of the following would best help to reduce extreme poverty?

- A) programs specifically targeted to bring the poorest nations into the development process
- B) international efforts to promote economic growth in countries with the greatest poverty
- C) increased development of environmental protection in countries with the greatest poverty
- D) adoption of cultural programs that shift populations from rural to urban locations

Answer: <https://biology-forums.com/index.php?topic=258718>

Question 1584

To maintain steady total populations in future decades, most European countries will need to

- A) decrease fertility rates.
- B) accept more immigrants.
- C) encourage emigration.
- D) encourage the use of birth control.

Answer: <https://biology-forums.com/index.php?topic=258678>

Question 1585

The loss of biodiversity most severely affects

- A) developed nations of the world.
- B) the wealthiest people in the world.
- C) the poorest people in developing nations.
- D) the production of food in the developed world.

Answer: <https://biology-forums.com/index.php?topic=258510>

Question 1586

Some farmers in the Midwest rotate their crops from year to year, switching from soybeans to corn on the same fields. What is one of the advantages of doing this?

- A) Soybeans add large amounts of carbon dioxide to the soil, which helps the corn crop.
- B) Both crops require the same fertilizing supplies, so farmers save by buying fertilizer in bulk.
- C) Corn adds large amounts of phosphorus to the soil, which helps the soybean crop.
- D) The corn crop benefits from reactive nitrogen fixed and added to the soil by the soybean crop.

Answer: <https://biology-forums.com/index.php?topic=258223>

Question 1587

- Most supply-side energy policies currently under consideration in the United States
- A) suggest a radical restructuring towards renewable resources in the next 10 years.
 - B) shift our energy resources from fossil fuels to solar, wind, and nuclear in the next 20 years.
 - C) shift almost half of the current fossil fuel use to hydroelectric power and solar power in the next 20 years.
 - D) continue to rely on the same fossil fuel resources without significant shifts towards sustainability.

Answer: <https://biology-forums.com/index.php?topic=259216>

Question 1588

- Most of the water on Earth is found in
- A) lakes and rivers.
 - B) polar ice caps.
 - C) glaciers.
 - D) oceans.

Answer: <https://biology-forums.com/index.php?topic=258781>

Question 1589

- Today, any pesticide banned for use and sale in the United States
- A) cannot be produced for use anywhere in the world.
 - B) can be produced but cannot be sold (but can be given away) for use elsewhere in the world.
 - C) cannot be produced but can be sold for use elsewhere in the world.
 - D) can be produced and sold to other countries.

Answer: <https://biology-forums.com/index.php?topic=259125>

Question 1590

- About 150 years ago, agriculture underwent a revolution due to
- A) genetic engineering of new crops.
 - B) the development of new herbicides and pesticides.
 - C) the industrial revolution, which brought changes in agricultural technology.
 - D) new markets that emerged from increased international trade.

Answer: <https://biology-forums.com/index.php?topic=258956>

Question 1591

- Examining an old abandoned home several months after a flood, a relief worker suddenly experiences difficulty breathing. At the hospital, she learns that she experienced
- A) a chronic respiratory illness, tuberculosis, more common in the developed world.
 - B) a chronic respiratory illness, malaria more common in the developing world.
 - C) an acute respiratory illness, asthma, more common in the developed world.
 - D) an acute respiratory illness, schistosomiasis, more common in the developing world.

Answer: <https://biology-forums.com/index.php?topic=256513>

Question 1592

- When cultivars require adaptations not currently in their genetics, plant breeders
- A) may treat the seeds with chemicals that cause mutations, to try to generate new forms.
 - B) often introduce traits found in wild varieties of the plant.
 - C) may try to introduce genetic traits found in pests of the crops.
 - D) use fertilizers to change the chemistry of the crops.

Answer: <https://biology-forums.com/index.php?topic=258416>

Question 1593

- The greatest number of known or yet to be discovered species are types of
- A) animals.
 - B) plants.
 - C) fungi.
 - D) mammals.

Answer: <https://biology-forums.com/index.php?topic=258430>

Question 1594

How would we expect a Latin American country to change if it became industrialized and significantly increased per capita income?

- A) The red line would stay about the same, but the green line would rise to above the red line.
- B) The green line would stay about the same, but the red line would drop to near the green level.
- C) The red line would stay about the same, but the green line would rise to just below the red line.
- D) The green and red lines would both drop below current levels.

Answer: <https://biology-forums.com/index.php?topic=258700>

Question 1595

In 1962, Rachel Carson published her book *Silent Spring*. Seven years later, in 1969, the Cuyahoga River again caught fire and gained national attention. Based upon the concerns she expressed in *Silent Spring*, which of the following would have been her most likely reaction to learning of the 1969 Cuyahoga River fire?

- A) The river fires illustrate one of the many ways we are polluting our environment.
- B) If we used more solar photocells and windmills, this would not happen.
- C) The industries responsible should be investigated by the EPA.
- D) This is a perfect example of what happens when we use our rivers for transportation.

Answer: <https://biology-forums.com/index.php?topic=258003>

Question 1596

The atmospheric brown cloud over much of China may be reduced by

- A) switching from biomass to coal as sources of energy.
- B) switching from natural gas to the use of biomass fuels.
- C) climate change that promotes temperature inversions.
- D) reducing the reliance on biomass and fossil fuels for energy.

Answer: <https://biology-forums.com/index.php?topic=256765>

Question 1597

Which of the following represents intangible capital?

- A) pollination
- B) coal and petroleum
- C) solar energy
- D) the library of the Smithsonian Institution

Answer: <https://biology-forums.com/index.php?topic=258083>

Question 1598

Most of the air pollution that we experience is located in the

- A) mesosphere.
- B) thermosphere.
- C) stratosphere.
- D) troposphere.

Answer: <https://biology-forums.com/index.php?topic=256586>

Question 1599

Regularly providing food to regions with chronic hunger in developing countries can aggravate the problem of food supplies by

- A) changing the types of native foods consumed by the local people.
- B) causing nutritional deficiencies associated with a new type of food.
- C) causing overnourishment and the health problems associated with obesity.
- D) decreasing the local production of food and disrupting the local economy.

Answer: <https://biology-forums.com/index.php?topic=259028>

Question 1600

About 100 meters downstream of a raw sewage discharge outlet we would expect to find

- A) cloudy water, low levels of oxygen, and few, if any, fish.
- B) cloudy water, high levels of oxygen, and abundant fish.
- C) clear water, low levels of oxygen, and few, if any, fish.
- D) clear water, high levels of oxygen, and abundant fish.

Answer: <https://biology-forums.com/index.php?topic=256949>

Question 1601

Today, DDT is no longer used in the United States because it is banned by law. At this point, the issue has reached the

- A) control stage because of a command and control strategy.

- B) control stage because of a market based strategy.
- C) implementation stage because of a command and control strategy.
- D) implementation stage because of a market based strategy.

Answer: <https://biology-forums.com/index.php?topic=258111>

Question 1602

As world populations increase

- A) the greatest increases in water demands will occur in the developing world.
- B) water demands will remain unchanged in the developing world.
- C) irrigation demands for water will stabilize at current levels.
- D) there will have to be a major increase in bottled water use.

Answer: <https://biology-forums.com/index.php?topic=258834>

Question 1603

Adding humus in a garden will most likely

- A) decrease the nutrients of the soil and the water-holding capacity.
- B) increase the nutrients of the soil and the water-holding capacity.
- C) increase the nutrients of the soil but decrease the water-holding capacity.
- D) decrease the nutrients of the soil but increase the water-holding capacity.

Answer: <https://biology-forums.com/index.php?topic=258909>

Question 1604

A shrimp farm in Thailand results in

- A) the short-term loss of natural services.
- B) the local loss of natural services.
- C) long term gains by a regional shrimp farmer.
- D) specific gains to the shrimp farmer.

Answer: <https://biology-forums.com/index.php?topic=258518>

Question 1605

Reprocessing of nuclear fuel

- A) requires the heavy use of lead and iron ore.
- B) eliminates the need for nuclear power plants.
- C) requires additional mining of uranium.
- D) reduces and reuses the stockpile of nuclear waste.

Answer: <https://biology-forums.com/index.php?topic=259293>

Question 1606

Which of the following is accurate about bottled water?

- A) It is often harvested from an area that needs water and is sold elsewhere.
- B) It requires less energy than providing water from a local aquifer or stream.
- C) It should not be used for emergencies, but is a practical solution for augmenting drinking water on a large scale.
- D) Michigan has approved commercial production in all areas of the state.

Answer: <https://biology-forums.com/index.php?topic=258833>

Question 1607

In developing countries, contaminated water is responsible for the deaths of more than 1.6 million people. Contributing to this problem is the use of

- A) groundwater for consumption and the disposal of human sewage.
- B) groundwater for consumption and the disposal of human sewage in surface waters.
- C) surface waters for consumption and the disposal of human sewage.
- D) surface waters for consumption and the disposal of human sewage in groundwater.

Answer: <https://biology-forums.com/index.php?topic=258825>

Question 1608

Every day, tremendous amounts of the sun's energy strikes the Earth. Why doesn't the Earth overheat?

- A) Much of the heat melts rocks, forming lava deep inside the Earth.
- B) Most of the energy is used in photosynthesis, to help plants grow and survive.
- C) The energy mostly is absorbed in various weather systems.
- D) The energy is ultimately radiated back to space.

Answer: <https://biology-forums.com/index.php?topic=256566>

Question 1609

Which of the following might best help grasses in a lawn that have been growing in a soil that has a high percentage of clay?

- A) adding fertilizer in the spring and fall
- B) adding lime in the spring to neutralize the pH of the soil
- C) aerating the lawn by removing small plugs of soil
- D) watering the lawn about an inch of water every other day

Answer: <https://biology-forums.com/index.php?topic=258908>

Question 1610

As global climate change warms certain mountain ranges, the temperature optima for the insect species living on the mountain is causing these insects to

- A) move higher up the mountain.
- B) move down the mountain.
- C) move to a new biome.
- D) become parasitic.

Answer: <https://biology-forums.com/index.php?topic=258159>

Question 1611

Which of the following is true of the Blue Revolution?

- A) less dependence on capturing runoff water
- B) restricting access to aquifers
- C) moving away from desalination toward increased use of bottled water
- D) making harder efforts to conserve, especially in food production

Answer: <https://biology-forums.com/index.php?topic=258853>

Question 1612

Walking along the woods, you spot a lizard that quickly runs under some leaves resting on the forest floor. Looking under the leaves to find the lizard, you notice that the soil is very moist despite several days without rain. This moist soil layer just under the leaves is a result of

- A) humus with a high water-holding capacity and reduced evaporative loss in the O horizon.
- B) sand with a high water-holding capacity with water supplied from the B and E horizon.
- C) low infiltration and high evaporative loss in the B horizon.
- D) a low water-holding capacity of the lower soil layers and high evaporation through the top soil layers.

Answer: <https://biology-forums.com/index.php?topic=258901>

Question 1613

Which one of the following statements is correct?

- A) Atoms are composed of protons and compounds are composed of neutrons and electrons.
- B) Atoms are the smallest components of an element that have the element's properties.
- C) Solids are made of elements, liquids and gases are made of compounds.
- D) Water is an element made from two compounds.

Answer: <https://biology-forums.com/index.php?topic=258169>

Question 1614

Compared to heating and cooling this home using a standard heat pump system, this home's heating and cooling system will

- A) probably keep the pond from freezing over in the winter.
- B) probably cause ice to form on the pond in the early summer and fall.
- C) reduce the carbon footprint of the homeowners.
- D) not work if ice forms on the top of the pond.

Answer: <https://biology-forums.com/index.php?topic=259385>

Question 1615

If the red fire ant were accidentally introduced into California and spread widely throughout the state, we would expect

- A) insect agricultural pests to decrease
- B) a decline in biodiversity.
- C) an increase in song bird populations
- D) that another species could be introduced that would control the population of ants.

Answer: <https://biology-forums.com/index.php?topic=258444>

Question 1616

Soils with the greatest water-holding capacity tend to have

- A) poor aeration and lowest workability.
- B) poor nutrient-holding capacity and good workability.
- C) good water infiltration and workability.
- D) good aeration and poor workability.

Answer: <https://biology-forums.com/index.php?topic=258879>

Question 1617

All scientific investigations are initially founded upon

- A) good observations.
- B) good experiments.
- C) multiple hypotheses, some of which are unanswerable.
- D) an already accepted theory.

Answer: <https://biology-forums.com/index.php?topic=258017>

Question 1618

In our natural atmosphere,

- A) there is very little hydrogen in any form.
- B) hydrogen is most abundant combined with oxygen as water vapor and other compounds.
- C) hydrogen is most abundant combined with carbon.
- D) hydrogen gas is more abundant than carbon dioxide.

Answer: <https://biology-forums.com/index.php?topic=259375>

Question 1619

Take a big breath of air. You have not inhaled any

- A) nitrogen.
- B) oxygen.
- C) carbon dioxide.
- D) minerals.

Answer: <https://biology-forums.com/index.php?topic=258176>

Question 1620

Mexico reduced deaths in children by 70% in less than a decade by

- A) improving sanitation in villages.
- B) improving hygiene in the homes.
- C) fighting dehydration from diarrhea with home hydration kits.
- D) requiring the use of bottled water.

Answer: <https://biology-forums.com/index.php?topic=256491>

Question 1621

Farmers in the Midwestern United States routinely rotate between soybean and corn crops. Sometimes it is said that they do this because the soybeans introduce nitrogen into the soil. Although this is true, farmers also rotate their corn and soybean crops as a form of

- A) cultural control.
- B) natural enemies.
- C) genetic control.
- D) natural chemical control.

Answer: <https://biology-forums.com/index.php?topic=259095>

Question 1622

Passing along some old gardening advice, a neighbor says, "If you want a great garden,

- A) keep the fungi and earthworms happy."
- B) water deeply every day."
- C) add at least 3 inches of sand and gravel to the soil every year."
- D) use plenty of pesticides."

Answer: <https://biology-forums.com/index.php?topic=258911>

Question 1623

The two highest levels of the atmosphere contain only small amounts of oxygen, nitrogen, and ozone. These layers are the

- A) mesosphere and thermosphere.
- B) thermosphere and stratosphere.
- C) stratosphere and troposphere
- D) thermosphere and troposphere.

Answer: <https://biology-forums.com/index.php?topic=256562>

Question 1624

To be a widely used energy source for humans, some collected solar radiation must be

- A) used to produce electricity.
- B) converted and stored.
- C) recycled into fossil fuels.
- D) used to heat water.

Answer: <https://biology-forums.com/index.php?topic=259318>

Question 1625

Small urban gardens in vacant lots and on rooftops are increasing in number. These gardens

- A) are able to make most cities agriculturally self-sufficient.
- B) recycle most of the compost generated by the city's sewage treatment facilities.
- C) are able to recapture most of the carbon dioxide in the city, making the cities carbon neutral.
- D) recycle compost, create jobs for unskilled workers, and provide limited amounts of fresh produce.

Answer: <https://biology-forums.com/index.php?topic=257478>

Question 1626

The most sustainable way to drive a car would be to use

- A) an all-electric car using electricity from a windmill or solar photocells.
- B) an all-electric car using electricity from any power supply.
- C) a hydrogen fuel cell using hydrogen produced by a nuclear power plant.
- D) a hybrid electric car that generates electricity when slowing down.

Answer: <https://biology-forums.com/index.php?topic=259154>

Question 1627

Which one of the following is the most inclusive category?

- A) landscape
- B) ecotone
- C) ecosystem
- D) biome

Answer: <https://biology-forums.com/index.php?topic=258151>

Question 1628

In a nuclear power plant, the amount of electricity that is generated is regulated by

- A) moving the nuclear fuel in and out of water.
- B) changing the water levels that surround the control rods.
- C) releasing surplus heat out of cooling towers that are always part of nuclear power plants.
- D) moving submerged control rods away from or between the submerged fuel rods.

Answer: <https://biology-forums.com/index.php?topic=259244>

Question 1629

Solar thermal systems would be least expensive to build and most effective to heat

- A) a cabin in Alaska in the winter.
- B) a swimming pool in Arizona in the winter.
- C) a home in South Dakota in the fall.
- D) water in a home in Oregon in the spring.

Answer: <https://biology-forums.com/index.php?topic=259323>

Question 1630

In the Curtis Prairie Restoration Project,

- A) there are expectations that the restored prairie will be exactly as it was when it was converted to farmland decades ago.
- B) fire will be excluded to give prairie plants an advantage over agricultural weeds.
- C) native prairie plant seeds were planted in abandoned farmland which was originally prairie.

D) Restored prairie will be reopened for agricultural development.

Answer: <https://biology-forums.com/index.php?topic=258598>

Question 1631

Command and control approaches to environmental public policy

- A) increase the likelihood of continued low levels of pollution, not the elimination of pollution.
- B) are not as good market-based policies for most environmental problems.
- C) are simpler than market based policies.
- D) use GPI economic principles to determine the nature of the response.

Answer: <https://biology-forums.com/index.php?topic=258108>

Question 1632

The Critical Ecosystem Partnership Fund provides money to

- A) governments to purchase land that contains endangered species.
- B) non-governmental agencies to protect biodiversity hot spots.
- C) international organizations to kill organisms that carry human disease vectors.
- D) the Defenders of Wildlife to replant trees in large burned areas of the rain forest to increase biodiversity.

Answer: <https://biology-forums.com/index.php?topic=258508>

Question 1633

Bison grazing on grasses growing in a meadow represent

- A) a consumer eating a producer.
- B) a predator eating a consumer.
- C) anaerobic metabolism.
- D) two producers exchanging energy.

Answer: <https://biology-forums.com/index.php?topic=258323>

Question 1634

Which one of the following global climate changes is most associated with increased hurricane activity?

- A) increased desertification in Africa
- B) warmer oceans
- C) melting polar ice caps
- D) melting glaciers in Alaska

Answer: <https://biology-forums.com/index.php?topic=256556>

Question 1635

The Emiquon and the Comprehensive Everglades Restoration Plan have both relied heavily on the principles of

- A) productive use management.
- B) maximum sustainable yield.
- C) restoration ecology.
- D) optimal population management.

Answer: <https://biology-forums.com/index.php?topic=258551>

Question 1636

Many people in the developing world primarily rely upon a diet of rice. Such a diet, even with plenty of rice available to meet the daily calorie requirements, runs the risk of

- A) malnutrition.
- B) overnourishment.
- C) undernourishment.
- D) obesity.

Answer: <https://biology-forums.com/index.php?topic=259020>

Question 1637

Biomes with permafrost are most likely

- A) covered in coniferous forests at high latitudes.
- B) in temperate zones with deciduous trees.
- C) located near the poles and without any trees.
- D) located at high altitudes nearest the equator.

Answer: <https://biology-forums.com/index.php?topic=258352>

Question 1638

If atmospheric carbon dioxide was eliminated from our atmosphere, we would expect that

- A) the Earth would cool considerably and photosynthesis would dramatically increase.
- B) the Earth would cool considerably and photosynthesis would dramatically decrease.
- C) the Earth would heat up considerably and photosynthesis would dramatically increase.
- D) the Earth would heat up considerably and photosynthesis would dramatically decrease.

Answer: <https://biology-forums.com/index.php?topic=257986>

Question 1639

As a percentage of GDP, the cost of environmental protection is, according to EPA estimates

- A) more than the cost of providing health care to citizens of the United States.
- B) more than the cost of national defense in the United States.
- C) about the same cost as the combined amounts spent on health care and defense in the United States.
- D) less than either the cost of defense or health care in the United States.

Answer: <https://biology-forums.com/index.php?topic=258115>

Question 1640

Natural climate variability ranging over months to decades is primarily the result of

- A) intense global warming.
- B) ocean-atmospheric interactions, especially the La Niña/El Niño southern oscillation (ENSO).
- C) variations in the intensity of the sun and the Milankovitch cycle.
- D) changes in the lunar orbit around the Earth.

Answer: <https://biology-forums.com/index.php?topic=256632>

Question 1641

The world's wild species represent a warehouse of genetic diversity of instrumental value commonly called

- A) the genetic bank.
- B) the agricultural genome project.
- C) a genome center.
- D) a chromosome concentration.

Answer: <https://biology-forums.com/index.php?topic=258419>

Question 1642

Which of the following statements is true or accurate about the Deepwater Horizon event of 2010?

- A) The event affected only the deep water marine life.
- B) The cleanup of the spill was relatively fast because the blowout was near the surface.
- C) Much of the spill was broken down by bacteria or evaporated from the water's surface.
- D) This was the first large-scale spill of crude oil into marine ecosystems.

Answer: <https://biology-forums.com/index.php?topic=259132>

Question 1643

In a rural hilly neighborhood, a landowner uses bulldozers to clear all but the largest trees and cleans up a nearby stream, lining the bottom of the stream with pretty rocks and stepping-stones. Planting lawn grasses around the base of the trees, the owner wants to create a pretty park-like setting around his home. We expect that in this ecological simplification of the cleared yard, there will be

- A) more species of invertebrates in the stream and on the land but fewer species of vertebrates and plants everywhere.
- B) more mammal and plant species but fewer birds and invertebrates on the land and in the stream.
- C) fewer species of vertebrates and plants everywhere but more invertebrates in the stream.
- D) fewer species of plants, invertebrates, and vertebrates everywhere.

Answer: <https://biology-forums.com/index.php?topic=258441>

Question 1644

Ecotourism throughout the world relies upon

- A) the harvesting and sale of natural products.
- B) the human desire to collect wildlife and wildlife products from throughout the world.
- C) a widespread public interest in exploring and maintaining natural environments.
- D) an interest in discovering plants to create new crops and agricultural products.

Answer: <https://biology-forums.com/index.php?topic=258423>

Question 1645

Some people become alarmed when they learn that the water they drink contains known carcinogens. These concerned people

- A) are rightly alarmed, because all municipal drinking water should be free of any carcinogens.
- B) should be somewhat alarmed, but might be comforted by knowing that some of these carcinogens are only known to cause cancer in mice.
- C) should know that it is the concentration, and not the presence of carcinogens, that is of greatest concern.
- D) should not be concerned, because it is the combination of carcinogens, and not the presence of any one carcinogen, that poses a health risk.

Answer: <https://biology-forums.com/index.php?topic=256955>

Question 1646

Eutrophication of Lake Washington near Seattle was largely addressed by limiting levels of

- A) phosphate from nonpoint source discharges of pollution.
- B) phosphate from point source discharges of pollution.
- C) nitrates from nonpoint source discharges of pollution.
- D) nitrates from point source discharges of pollution.

Answer: <https://biology-forums.com/index.php?topic=257034>

Question 1647

Floods are becoming more common primarily because

- A) precipitation has increased worldwide.
- B) populations are more concentrated in vulnerable watersheds.
- C) land use has changed, altering runoff, erosion and infiltration patterns.
- D) the "sponge effect" of forests releases large and unpredictable amounts of water.

Answer: <https://biology-forums.com/index.php?topic=258822>

Question 1648

In 1968, Garret Hardin described an environmental problem in which shared environmental resources may be depleted as individuals maximize their gains by disproportionately using the resource. He called this "The Tragedy of the Commons." Which of the following threats to biodiversity best reflect this "Tragedy of the Commons"?

- A) the appearance of many deformed frogs from overuse of herbicides
- B) the accidental introduction of invasive species into North America
- C) the decline of fish populations due to overexploitation
- D) the fragmentation of natural habitat to build bridges and highways

Answer: <https://biology-forums.com/index.php?topic=258483>

Question 1649

In general, the most hazardous of all HAZMAT materials are those that demonstrate high levels of

- A) ignitability.
- B) radioactivity.
- C) photoreactivity.
- D) corrosivity.

Answer: <https://biology-forums.com/index.php?topic=257239>

Question 1650

Dams typically

- A) eliminate flooding both upstream and downstream.
- B) create important water reservoirs.
- C) contribute to global warming and increase aerosol levels.
- D) help stabilize estuarine ecosystems.

Answer: <https://biology-forums.com/index.php?topic=258836>

Question 1651

The nuclear power accidents at Chernobyl and Three Mile Island are less likely in most modern U.S. nuclear power plants today because of

- A) the use of different types of fuels in the nuclear cores that cannot cause a total meltdown.
- B) increased reliance on robots to avoid human errors.
- C) additional design features that provide more layers of safety.
- D) new nuclear power plant designs that require only 1% of the nuclear fuel.

Answer: <https://biology-forums.com/index.php?topic=259274>

Question 1652

- The concept of sustainability requires that
- A) economic growth does not exceed the renewal of natural capital.
 - B) all sources of energy used in an economy must come from the sun.
 - C) global economic systems are based on the harvesting of natural products.
 - D) economies use equal portions of land, labor, and capital.

Answer: <https://biology-forums.com/index.php?topic=258081>

Question 1653

- The most effective way to reduce GHG emissions is to increase
- A) the production of electric cars.
 - B) energy efficiency and renewable energy.
 - C) our reliance on widely available natural gas resources.
 - D) the use of coal gasification plants and scrubber technologies to reduce sulfur emissions.

Answer: <https://biology-forums.com/index.php?topic=256708>

Question 1654

- Denitrification in sewage treatment systems requires
- A) the bubbling of oxygen into waste sewage.
 - B) the addition of water to waste sewage.
 - C) an anaerobic environment.
 - D) an aerobic environment.

Answer: <https://biology-forums.com/index.php?topic=258225>

Question 1655

- When a plant does not get enough water and starts to wilt, it
- A) opens its stomata, stops transpiration, and generates oxygen but not carbon dioxide.
 - B) opens its stomata, starts transpiration, and generates carbon dioxide but not oxygen.
 - C) closes its stomata, stops transpiration, and no longer brings in carbon dioxide from the air.
 - D) closes its stomata, starts transpiration, and no longer brings in oxygen from the air.

Answer: <https://biology-forums.com/index.php?topic=258899>

Question 1656

- The EPA is authorized by the Toxic Substances Control Act (TSCA) to test the safety of chemicals used in bulk in the manufacturing of products. When passed, these regulations required the testing of existing and new chemicals when there are indications of potential risks. Since TSCA was passed, the EPA has
- A) reversed this guideline, requiring the testing only for substances that are known carcinogens.
 - B) tested and banned more than 300 new and existing substances.
 - C) tested the safety of about half of the 80,000 chemical substances in the inventory.
 - D) tested the safety of less than 1% of the chemical substances in the inventory.

Answer: <https://biology-forums.com/index.php?topic=257344>

Question 1657

- The World Bank's new direction addresses the intersection of which three concerns in sustainable development?
- A) economic, social, and environmental factors
 - B) educational, economic, and health factors
 - C) medical, educational, and environmental factors
 - D) social, education, and health factors

Answer: <https://biology-forums.com/index.php?topic=258732>

Question 1658

- Our experience with herbicides and insecticides indicate that
- A) both are capable of selecting for natural resistance by evolution.
 - B) herbicides but not insecticides are capable of selecting for natural resistance by evolution.
 - C) insecticides but not herbicides are capable of selecting for natural resistance by evolution.
 - D) neither are capable of selecting for natural resistance by evolution.

Answer: <https://biology-forums.com/index.php?topic=259060>

Question 1659

Which of the following industries is most responsible for deforestation in the world?

- A) farming
- B) housing construction
- C) the lumber mills and wood pulp manufacturing
- D) hydroelectric plants

Answer: <https://biology-forums.com/index.php?topic=258557>

Question 1660

Which of the following types of pollution became much more common in the 20th century?

- A) large-scale pollution in developing countries
- B) small-scale regional pollution in developing countries
- C) small-scale regional pollution in developed countries
- D) large-scale pollution in developed countries

Answer: <https://biology-forums.com/index.php?topic=259396>

Question 1661

Which one of the following statements is correct?

- A) Molecules and compounds are types of matter.
- B) Carbon dioxide in the atmosphere is a gas but not a form of matter.
- C) When water is boiled, it changes from matter into a gas.
- D) During chemical reactions, elements combine and matter is formed.

Answer: <https://biology-forums.com/index.php?topic=258171>

Question 1662

The risk of introducing a natural enemy to control an invasive species is that

- A) it might drive the invasive species to extinction.
- B) the natural enemy might also become a pest.
- C) the natural enemy might evolve into a new species.
- D) the natural enemy may introduce genetic diversity into the invasive species.

Answer: <https://biology-forums.com/index.php?topic=258312>

Question 1663

A friend suggests that the use of corn for ethanol production is causing a rise in corn prices and corn shortages that essentially starve children to fuel American cars. Wondering if that might really be true, you investigate and learn something that suggests this relationship is not true. You find out that

- A) most of the money saved by using ethanol is used by charitable organizations that feed the poor.
- B) the process of making ethanol also produces antibiotics to help prevent human diseases.
- C) although corn prices have risen, much more corn is now being planted and the prices of other crops have risen more than corn.
- D) ethanol production uses part of corn not used to feed either animals or humans.

Answer: <https://biology-forums.com/index.php?topic=258977>

Question 1664

Deliberate campaigns of misinformation with the intent to create mistrust in climate science have been vigorously pushed by

- A) members of the scientific community who have alternate explanations for climate change.
- B) organizations and corporations who stand to lose profits if fossil fuel use is reduced.
- C) developing nations who blame developed nations for climate problems.
- D) economists who have no faith in alternative energies.

Answer: <https://biology-forums.com/index.php?topic=256689>

Question 1665

Burkina Faso and the Keita project in Niger demonstrate that

- A) corrective measures can successfully reverse soil degradation.
- B) sustainable soil conservation efforts are impossible once soils are degraded.
- C) despite human efforts, natural climate cycles may prevent sustainable practices.
- D) desertification is a natural result of climate variation.

Answer: <https://biology-forums.com/index.php?topic=258947>

Question 1666

Some of the most toxic organic compounds, widely used in plastics, pesticides, and solvents, are the

- A) heavy metals.
- B) chlorinated hydrocarbons.
- C) sulfated hydrocarbons.
- D) radioactive hydrocarbons.

Answer: <https://biology-forums.com/index.php?topic=257251>

Question 1667

Human interactions between wildlife, homes, and highways

- A) has never really been a problem.
- B) is an increasing problem as humans populations increase and spread.
- C) has declined as the populations of most animals near humans have plummeted.
- D) has largely been addressed by expanding hunting seasons and limits.

Answer: <https://biology-forums.com/index.php?topic=258493>

Question 1668

Water that comes up positive after fecal coliform testing indicates health risks most commonly associated with

- A) infection by E. coli.
- B) heavy metals and toxic organic molecules.
- C) radon and other radioactive materials.
- D) a variety of pathogens in human sewage.

Answer: <https://biology-forums.com/index.php?topic=256939>

Question 1669

From 2001 to 2009, the Bush administration

- A) developed an energy policy that favored heavy exploitation of fossil fuels.
- B) strengthened the United States support of the Kyoto Protocol.
- C) strengthened air and water quality standards.
- D) supported carbon emission reduction and renewable energy development.

Answer: <https://biology-forums.com/index.php?topic=258131>

Question 1670

The region of Kerala in India demonstrates that improvements in health care and longevity are correlated with

- A) decreases in literacy rates.
- B) increased reliance upon India's caste system.
- C) decreases in per capita income.
- D) reductions in total fertility rates and a high literacy rate.

Answer: <https://biology-forums.com/index.php?topic=258741>

Question 1671

Which one of the following contributes the most to global climate change?

- A) planting forests to grow wood for lumber and paper pulp
- B) the use of natural gas to heat homes
- C) the generation of electricity from nuclear fuel
- D) eating a vegetarian diet

Answer: <https://biology-forums.com/index.php?topic=258384>

Question 1672

For most people living in developed countries, their greatest exposure to radiation is from

- A) the natural environment.
- B) dental X-rays.
- C) X-rays of the bones of the body.
- D) exposure to any sort of fossil fuels.

Answer: <https://biology-forums.com/index.php?topic=259259>

Question 1673

Discount rates calculate the

- A) future value of an asset.
- B) aesthetic value of natural assets.
- C) current value of a future benefit or cost.

D) intrinsic value of renewable resources.

Answer: <https://biology-forums.com/index.php?topic=258100>

Question 1674

Compare the amount of municipal solid waste (MSW) generated per person in 2010 to 1960. If we remove the portion that could be recycled from the 2010 average, how would the remainder compare to the average per person MSW in 1960 when there was essentially no recycling? The average per person MSW in 2010 would be

- A) about half that generated per person in 1960.
- B) about the same as that generated per person in 1960.
- C) about 10% more than that generated per person in 1960.
- D) more than double that generated per person in 1960.

Answer: <https://biology-forums.com/index.php?topic=257056>

Question 1675

The fragmentation of natural habitats in the conversion of land for human uses creates

- A) more opportunities to preserve wildlife in many small parks.
- B) focused regions where careful wildlife management can actually increase biodiversity.
- C) habitats that favor species that grow slowly or have naturally unstable populations.
- D) habitat breaks that favor species that thrive at the edges of ecosystems.

Answer: <https://biology-forums.com/index.php?topic=258439>

Question 1676

The total fertility rate was most significantly increased by the

- A) Industrial Revolution.
- B) Medical Revolution.
- C) Green Revolution.
- D) Neolithic Revolution.

Answer: <https://biology-forums.com/index.php?topic=258627>

Question 1677

An ethical response to growing concern about climate change might be found by applying

- A) cost-benefit analysis.
- B) the Precautionary Principle as articulated in the 1992 Rio Conference.
- C) forgiveness to climate scientists who have deliberately falsified data.
- D) the principle of Economic Might Makes Right.

Answer: <https://biology-forums.com/index.php?topic=256691>

Question 1678

If you collect a jar of muddy water from a puddle or ditch, and then let the mud settle out over many hours, you have separated much of the mud from the water using a process very much like the

- A) grit chamber in a wastewater facility.
- B) primary treatment in a wastewater facility.
- C) secondary treatment in a wastewater facility.
- D) trickling-filter system in a wastewater facility.

Answer: <https://biology-forums.com/index.php?topic=256972>

Question 1679

Compared to a person in a developed country, a person in a developing country is about eight times more likely to die from

- A) cancer.
- B) injuries.
- C) cardiovascular disease.
- D) communicable diseases.

Answer: <https://biology-forums.com/index.php?topic=258756>

Question 1680

To enforce China's one-child policy, the government

- A) promoted voluntary compliance as a patriotic act.
- B) deported anyone who did not comply.
- C) instituted an elaborate system of economic and social incentives and penalties.
- D) pursued strict compliance in rural agricultural areas but not in urban areas.

Answer: <https://biology-forums.com/index.php?topic=258745>

Question 1681

The amount of land and ocean needed to provide the resources for one person and absorb his/her wastes defines the

- A) carbon footprint.
- B) demographic impression.
- C) environmental footprint.
- D) resource capacity.

Answer: <https://biology-forums.com/index.php?topic=258651>

Question 1682

The ultimate responsibility for public policy legislation controlling the waters of the United States is the

- A) EPA.
- B) U.S. Congress.
- C) National Oceanic and Atmospheric Administration.
- D) United States Geological Services.

Answer: <https://biology-forums.com/index.php?topic=257039>

Question 1683

A university in Florida wishes to investigate the feasibility of using a large wind turbine on campus to power several buildings. Wind speeds throughout the year and potential storms and hurricanes must be considered to determine if and where a wind turbine might be installed. To consider these many factors, the university would most benefit from the work of

- A) a physicist to measure changes in the stratosphere.
- B) an environmental biologist to measure the biotic and abiotic factors in the region.
- C) a meteorologist to study the regional climate.
- D) a meteorologist to predict changes in the stratosphere.

Answer: <https://biology-forums.com/index.php?topic=256564>

Question 1684

Natural capital includes ecosystem capital plus

- A) natural forms of energy, such as solar, wind, and flowing water.
- B) nonrenewable resources such as fossil fuels.
- C) money available to invest in growing industry.
- D) all of the products of photosynthesis in the biosphere.

Answer: <https://biology-forums.com/index.php?topic=258080>

Question 1685

The Doha Round of WTO meetings have failed to reach agreement about

- A) currency exchange.
- B) converting the economies of developed nation from green to brown.
- C) farm subsidies and trade barriers.
- D) how to control public protests at future WTO meetings.

Answer: <https://biology-forums.com/index.php?topic=258073>

Question 1686

Which of the following is the most inclusive example of the environment?

- A) a farmhouse, plowed fields, and a stand of old growth forest nearby
- B) 50,000 people packed into a stadium to watch a football game
- C) a remote region in Yellowstone National Park with access restricted to people
- D) the student center building of a large university, busy with students at lunchtime

Answer: <https://biology-forums.com/index.php?topic=257995>

Question 1687

One of the reasons that humans continue to convert ecosystems to more direct human uses is that

- A) the benefits are experienced locally while the losses are experienced regionally or globally.
- B) the human uses are much more productive than the natural systems.
- C) ecosystems function best when they are managed by humans for human uses.
- D) humans can redirect natural systems to more sustainable systems.

Answer: <https://biology-forums.com/index.php?topic=258387>

Question 1688

Which of the following relationships is most likely to occur if global climate change policies are not enacted soon?

- A) The wealthiest nations will contribute most to global climate change, yet the poorest people of the world will suffer most.
- B) The wealthiest nations will contribute most to global climate change, and they will in turn suffer the most.
- C) The poorest nations will contribute most to global climate change, yet the wealthiest nations will suffer most.
- D) The poorest nations will contribute most to global climate change, and they in turn will suffer most.

Answer: <https://biology-forums.com/index.php?topic=257988>

Question 1689

The continuing addition of large amounts of nitrogen and phosphorus to aquatic ecosystems may exceed planetary boundaries and create a "tipping point" in which

- A) nitrogen and phosphorus are depleted from soils.
- B) high nitrogen and phosphorus levels cause ecosystems to change in ways difficult to reverse and that are damaging to human food production.
- C) these ecosystems produce far more human food than ever before.
- D) water is lost from these systems and they become deserts.

Answer: <https://biology-forums.com/index.php?topic=258219>

Question 1690

One of the greatest drawbacks of using incinerators to burn MSW is that incinerators

- A) add to air pollution in the region.
- B) increase the mass of MSW entering the landfills.
- C) generate large volumes of toxins that otherwise would not need to be managed.
- D) require large amounts of coal to burn the MSW.

Answer: <https://biology-forums.com/index.php?topic=257110>

Question 1691

The dead zone in the Gulf of Mexico is primarily the result of

- A) nonpoint sources of pollutants.
- B) point sources of pollutants.
- C) a natural cycle related to cold ocean currents.
- D) industrial pollution by oil refineries in the New Orleans region.

Answer: <https://biology-forums.com/index.php?topic=256914>

Question 1692

Biogeochemical cycles involve

- A) only biological processes.
- B) heat loss from both respiration and photosynthesis.
- C) only geological and chemical processes.
- D) the cyclic movement of materials through ecosystems.

Answer: <https://biology-forums.com/index.php?topic=258221>

Question 1693

The LUST fund would most likely be used to address the cleanup of

- A) any Superfund site with the highest priority.
- B) leaking, buried gasoline storage tanks.
- C) radioactive wastes buried in the soil.
- D) sites in which bioremediation is used.

Answer: <https://biology-forums.com/index.php?topic=257312>

Question 1694

Scientists investigating a drug to cure a disease in birds conducted experiments. In these experiments, what were the controls?

- A) birds that did not receive the drug being tested
- B) birds that received the drug being tested
- C) rats that were given the drug being tested
- D) birds given another drug that was not being tested

Answer: <https://biology-forums.com/index.php?topic=258020>

Question 1695

In this unusual ecosystem,

- A) there is no photosynthesis.
- B) no energy is transferred between trophic levels.
- C) temperature is the most important biotic factor.
- D) producers eat consumers.

Answer: <https://biology-forums.com/index.php?topic=258328>

Question 1696

As a cold front moves into an area of warm, moist air, we would expect to see cloud formation as

- A) the warm air rises and condenses.
- B) the cold air rises and condenses.
- C) evaporation and transpiration increase.
- D) high altitude air masses fall and condense.

Answer: <https://biology-forums.com/index.php?topic=258799>

Question 1697

The EROI for domestically produced oil

- A) has been growing since the 1930s.
- B) is currently close to that of solar photovoltaics and wind.
- C) is much less than for tar sands.
- D) makes a good argument for not funding development of renewable energy.

Answer: <https://biology-forums.com/index.php?topic=259194>

Question 1698

The two reactions indicated in this figure represent

- A) fusion at the top and fission at the bottom.
- B) fission at the top and fusion at the bottom.
- C) two types of fission reactions.
- D) two types of fusion reactions.

Answer: <https://biology-forums.com/index.php?topic=259250>

Question 1699

A new store is constructed in place of a farm field, leading to increased runoff into streams, that leads to mudslides in the surrounding region. This construction resulted in the loss of ecosystem capital, because it

- A) increased erosion in the region.
- B) decreased the amount of crops grown in the region.
- C) increased the number of cars traveling in the region, to and from the store.
- D) All of the above.

Answer: <https://biology-forums.com/index.php?topic=257979>

Question 1700

The greatest cause of topsoil loss around the world is

- A) erosion.
- B) the construction of new buildings and roads.
- C) the creation of new mines.
- D) rising ocean levels.

Answer: <https://biology-forums.com/index.php?topic=258921>

Question 1701

As a new member of your city council, your small town realizes that the old wastewater treatment facility is resulting in unacceptable levels of cultural eutrophication. Relying upon provisions of the 1987 Water Quality Act, you suggest that the best way for your town to address this problem is to

- A) merge the storm water and sanitary sewer systems to dilute the nutrients your town produces.
- B) apply for grants from the Environmental Protection Agency to pay for herbicides to control phytoplankton growth.
- C) seek a low-interest loan from the Clean Water State Revolving Fund to pay for a new wastewater treatment facility.
- D) apply for a grant from the federal Eutrophication Services Administration that will pay for the construction of a new wastewater treatment facility.

Answer: <https://biology-forums.com/index.php?topic=257043>

Question 1702

Which of the following affects the greatest number of people in the developing world?

- A) water availability

- B) lack of primary schools for children
- C) inadequate sanitation
- D) no childhood immunization for measles

Answer: <https://biology-forums.com/index.php?topic=258726>

Question 1703

China's current rush to construct dams and transport water over long distances is a response to

- A) the national need to create more water-intensive industries such as mining.
- B) draining areas that can be put into crop cultivation.
- C) reducing the amount of water used in crop irrigation.
- D) producing more water for crop irrigation, urban use and for hydroelectric projects.

Answer: <https://biology-forums.com/index.php?topic=258776>

Question 1704

If you live in the United States, chances are that you have consumed some processed food that includes bioengineered plants

- A) almost every day.
- B) at most once a month.
- C) perhaps once a year.
- D) once in your lifetime.

Answer: <https://biology-forums.com/index.php?topic=258995>

Question 1705

Potential environmental damage results from the harvesting of fossil fuels and

- A) the transportation and waste products generated by their use.
- B) their transportation and storage.
- C) their storage and waste products.
- D) the transportation, storage, and waste products generated by their use.

Answer: <https://biology-forums.com/index.php?topic=259130>

Question 1706

In the 1900s, fuel efficiency in transportation greatly increased when engines were converted from

- A) natural gas to coal and steam.
- B) oil to coal and steam.
- C) coal and steam to gasoline.
- D) natural gas to gasoline.

Answer: <https://biology-forums.com/index.php?topic=259138>

Question 1707

Which of the following lumber harvesting strategies will most likely produce erosion problems?

- A) clear-cutting
- B) selective cutting
- C) shelter-wood cutting
- D) sustainable forest management

Answer: <https://biology-forums.com/index.php?topic=258562>

Question 1708

Competitive exclusion is not as common as many biologists expected, in large part because

- A) there just are not that many species of organisms on Earth.
- B) ecosystems are more homogeneous than was appreciated.
- C) even when two species share an identical niche, they find a way to cooperate.
- D) heterogeneous environments allow apparent competitors to occupy separate niches.

Answer: <https://biology-forums.com/index.php?topic=258277>

Question 1709

The greatest loss of biodiversity in the last two centuries has resulted from

- A) the introduction of alien species to new ecosystems.
- B) the use of fossil fuels to power transportation and electrical production.
- C) the physical alteration of habitats.
- D) the use of rivers, lakes, and oceans for transportation.

Answer: <https://biology-forums.com/index.php?topic=258437>

Question 1710

We expect the highest relative humidity on a soccer field during the summer on a

- A) hot afternoon during a drought.
- B) cool evening during a drought.
- C) hot afternoon following a heavy rain.
- D) cool evening after a heavy rain.

Answer: <https://biology-forums.com/index.php?topic=258789>

Question 1711

What global event happened about 35 years ago that helped some fishing areas recover?

- A) All commercial fishing was limited to hand lines instead of nets.
- B) Nations extended their jurisdiction from 12 to 200 miles offshore.
- C) The size of the vessels used for commercial fishing was restricted to 200 tons.
- D) International agreements limited the size of fish that could be kept and sold.

Answer: <https://biology-forums.com/index.php?topic=258568>

Question 1712

Today, transgenic technology

- A) has been restricted to plant crops that are not consumed by humans.
- B) has been used in commercial plant crops consumed by humans but not in animals raised for food.
- C) has probably peaked, with the continued use of transgenic plants on the decline.
- D) has supported the use of no-till farming techniques that conserve soils by reducing erosion.

Answer: <https://biology-forums.com/index.php?topic=258984>

Question 1713

Most organisms use water in

- A) the form of rain.
- B) liquid form.
- C) solid form.
- D) gaseous form.

Answer: <https://biology-forums.com/index.php?topic=258173>

Question 1714

In his movie, An Inconvenient Truth, Al Gore warns of increasing levels of carbon dioxide in the atmosphere which suggest that

- A) methane levels will soon rise, destroying the ozone layer.
- B) global temperatures will also continue to rise.
- C) the oceans of the world are losing carbon dioxide.
- D) clouds are thinning and global precipitation is declining.

Answer: <https://biology-forums.com/index.php?topic=256617>

Question 1715

New buildings that receive the energy star rating are recognized for

- A) using solar or geothermal for at least 30% of the building's energy needs.
- B) using solar power for at least 50% of the building's energy needs.
- C) using wind power for at least 20% of the building's energy needs.
- D) using 40% less energy than other buildings in their class.

Answer: <https://biology-forums.com/index.php?topic=259331>

Question 1716

A blackout like the eight-state blackout of 2003 could be prevented by

- A) using energy efficient lights in most businesses.
- B) a self-healing smart electrical grid.
- C) switching from coal to natural gas for electrical generation.
- D) greater use of electricity during the work week instead of weekends.

Answer: <https://biology-forums.com/index.php?topic=259153>

Question 1717

In the classical view of economic activity in this figure, if the number of households in a region increases,

- A) total household consumption will decrease.
- B) the demands for labor will increase.
- C) goods and services will decline.
- D) the total cost of labor will decline.

Answer: <https://biology-forums.com/index.php?topic=258062>

Question 1718

As sun shines on its leaves, a bean plant uses the light in photosynthesis to make beans. This entire process represents, in this sequence, the

- A) generation, collection, and conversion of energy.
- B) storage of energy, collection, and conversion.
- C) conversion, collection, and storage of energy.
- D) collection, conversion, and storage of energy.

Answer: <https://biology-forums.com/index.php?topic=259319>

Question 1719

In a mature forest in a national park, maple trees grow very large and live more than 80 years. Over an average lifetime, a tree produces more than 100,000 seeds, of which only 2-3 sprout and grow to maturity. This maple tree is

- A) K-selected and exhibits a type I survivorship curve.
- B) K-selected and exhibits a type III survivorship curve.
- C) r-selected and exhibits a type I survivorship curve.
- D) r-selected and exhibits a type III survivorship curve.

Answer: <https://biology-forums.com/index.php?topic=258251>

Question 1720

First published in 1962, the book Silent Spring helped to establish

- A) the modern civil rights movement.
- B) modern environmental movement.
- C) the Food and Drug Administration.
- D) the National Wildlife Federation.

Answer: <https://biology-forums.com/index.php?topic=259081>

Question 1721

The development of new varieties of grain crops increased productivity by increasing the

- A) surface area of the leaves of the plants.
- B) size of the roots and ability to absorb water.
- C) strength of the stems to support more grains.
- D) size and number of seeds.

Answer: <https://biology-forums.com/index.php?topic=258964>

Question 1722

On average in the United States, every day each person produces about

- A) 10-20 gallons of wastewater containing about a gallon of waste.
- B) 50-100 gallons of wastewater containing about three gallons of waste.
- C) 150-200 gallons of wastewater containing less than a half gallon of waste.
- D) 300-400 gallons of wastewater containing about 10 gallons of waste.

Answer: <https://biology-forums.com/index.php?topic=256964>

Question 1723

Which one of the following generally increases natural sources of the pollution of the air?

- A) bright sunlight
- B) generation of hydroxyl radicals
- C) sea salt aerosols entering the air over an ocean
- D) gases released by a volcanic eruption

Answer: <https://biology-forums.com/index.php?topic=256744>

Question 1724

The basic strategy of the OPEC cartel is to

- A) assure that developed nations get as much crude as oil as they need.
- B) give priority to developing nations who want to use oil to boost industrial progress.
- C) produce all their proven reserves as quickly as possible to keep prices and demand high.

D) control production and keep the market price as high as possible without discouraging major buyers.

Answer: <https://biology-forums.com/index.php?topic=259177>

Question 1725

In the United States today, the most widely used system to generate electricity uses

- A) oil to power turbogenerators.
- B) natural gas to power turbogenerators.
- C) coal to power turbogenerators.
- D) water to power hydroturbogenerators.

Answer: <https://biology-forums.com/index.php?topic=259149>

Question 1726

Which of the following human activities is most negatively impacting biodiversity around the world?

- A) the production of food: agriculture and fisheries
- B) the harvesting of fossil fuels
- C) the construction of roads in wilderness areas
- D) recreational activities

Answer: <https://biology-forums.com/index.php?topic=258587>

Question 1727

The diversity and productivity of coral reefs is most similar to that of

- A) desert environments.
- B) a natural prairie.
- C) tropical rain forests.
- D) a river system.

Answer: <https://biology-forums.com/index.php?topic=258583>

Question 1728

Noticing large amounts of algal growth in her small farm pond, a farmer adds about 20 grass carp to feed on the abundant algae and plants. After several years, the carp grow large, exceeding 20 pounds each in size. Late one summer, the farmer notices that the carp and most of the other fish are dead. The water also smells very bad. Which one of the following is the most likely explanation for the death of these fish?

- A) the algae overgrew the pond and produced toxic levels of ozone
- B) the large carp grew so large that they could not get enough oxygen
- C) bacteria feeding on the large volume of carp feces depleted the oxygen
- D) carbon dioxide released by the carp and algae eventually suffocated the fish in the pond

Answer: <https://biology-forums.com/index.php?topic=256900>

Question 1729

Over the past 12,000 years, the greatest loss of biological wealth has resulted from the

- A) conversion of natural ecosystems to modern agriculture.
- B) movement of human products down rivers and across oceans.
- C) extraction of oil and mineral from reserves buried deeply underground.
- D) use of deep aquifers, lakes, and rivers as sources of freshwater.

Answer: <https://biology-forums.com/index.php?topic=258409>

Question 1730

To promote crop growth, a farmer is most likely to apply fertilizers to the soil that contain

- A) nitrogen.
- B) nitrogen or phosphorus.
- C) carbon or phosphorus.
- D) carbon, nitrogen, or phosphorus.

Answer: <https://biology-forums.com/index.php?topic=258220>

Question 1731

As demonstrated during the high oil prices of 2008, when gasoline prices skyrocket, hybrid vehicle sales

- A) decrease and more people use public transportation.
- B) increase and fewer people use public transportation.
- C) decrease and fewer people use public transportation.
- D) increase and more people use public transportation.

Answer: <https://biology-forums.com/index.php?topic=256862>

Question 1732

The oil spill that destroyed BP's Deepwater Horizon drilling platform in the Gulf of Mexico in 2010 affected all of the following catastrophically, except

- A) marine organisms on both the surface and bottom.
- B) tourism and fishing economies of the Gulf states.
- C) atmospheric and water pollution.
- D) agricultural production in the northern parts of the Gulf states.

Answer: <https://biology-forums.com/index.php?topic=259131>

Question 1733

The global food crisis of 2007 and 2008 was caused in large part by

- A) the large-scale conversion of cropland into roads and cities.
- B) increased consumption of grains and decreased demand for meat.
- C) a shortage of large ships to haul grain overseas.
- D) higher production costs and increased demands for grains.

Answer: <https://biology-forums.com/index.php?topic=259010>

Question 1734

Official allocation of government aid is directed

- A) to regions most impacted by battles and other acts of war.
- B) to areas most ravaged by infectious parasites such as malaria.
- C) by world events and conflicts and by the strategic interests of the donor country.
- D) by international organizations focused on environmental sustainability.

Answer: <https://biology-forums.com/index.php?topic=258740>

Question 1735

Because of the modern environmental movement,

- A) world population has remained stable.
- B) coal power plants are the main source of our electricity.
- C) federal government is less involved in environmental policy.
- D) average life expectancy for humans is longer.

Answer: <https://biology-forums.com/index.php?topic=258006>

Question 1736

Farmers suffering severe poverty often barely produce enough crops to survive. These farmers

- A) exist in a downward spiral of degraded land and reduced productivity.
- B) often accumulate neighboring land, grow their farms, and rise out of poverty.
- C) work longer days and increase their family sizes until their farms become very profitable.
- D) typically convert their farms to forests, and sell lumber at much higher prices.

Answer: <https://biology-forums.com/index.php?topic=258714>

Question 1737

In recent decades, as the wealth of the United States has increased, the quality of the environment in the United States has

- A) increased along with increased environmental quality in poorer countries.
- B) increased but at the expense of decreased environmental quality in poorer countries.
- C) decreased along with the decreased environmental quality in poorer countries.
- D) decreased, but the environmental quality in poorer countries has increased.

Answer: <https://biology-forums.com/index.php?topic=258649>

Question 1738

After a winter storm, bright sunlight returns and the snow and ice on the road melts into liquid water. This is an example of

- A) light energy converted to heat energy changing the state of water.
- B) movement changing the position of snow and ice.
- C) matter changing the heat of the atmosphere.
- D) movement generating heat that changes the position of ice and snow.

Answer: <https://biology-forums.com/index.php?topic=258186>

Question 1739

How has converting forests to mostly paved urban areas changed the streams and rivers in the affected watersheds?

- A) Flooding has decreased.
- B) Infiltration shifts to runoff.
- C) Evaporation has increased.
- D) Levels of water flow and pollution have decreased.

Answer: <https://biology-forums.com/index.php?topic=258813>

Question 1740

Many strategies have been used to control leafy spurge, including the deliberate introduction of different species of flea beetles that feed on leafy spurge. Each flea beetle female may lay about 200 eggs in her only year of life. In places where flea beetle introductions have quickly established large populations that have grown and stabilized, the population growth of these beetles most likely looked like

- A) a straight increasing line.
- B) a J-shaped curve.
- C) an S-shaped curve.
- D) an upside down U-curve.

Answer: <https://biology-forums.com/index.php?topic=258237>

Question 1741

In general, newspaper recycling is

- A) rare because demand in Europe and Asia has fallen.
- B) rare but the demand is quite high and steady.
- C) common and widespread but the demand is quite variable.
- D) common and widespread and the demand remains very consistent and high.

Answer: <https://biology-forums.com/index.php?topic=257163>

Question 1742

Some birds have been seen to consume certain soils in what is called geophagy. In some cases, the soils help the birds digest toxins that occur in their diets. These birds eating soil represent a member of the

- A) biosphere consuming a component of the lithosphere.
- B) hydrosphere consuming a component of the atmosphere.
- C) lithosphere consuming a component of the biosphere.
- D) atmosphere consuming a component of the hydrosphere.

Answer: <https://biology-forums.com/index.php?topic=258177>

Question 1743

Within only the past few decades the global trend has been for people

- A) to move out of rural farming areas and into cities.
- B) living in large cities to move to smaller cities.
- C) living in cities to raise most of their food.
- D) living in large cities to recycle most of their waste.

Answer: <https://biology-forums.com/index.php?topic=258659>

Question 1744

A loss-of-coolant accident is very dangerous because

- A) without the surrounding water as a moderator, the fission reaction would turn into a fusion reaction.
- B) without the surrounding water as a moderator, the fission reaction would increase in rate.
- C) the fuel core could overheat from radioactive decay and lead to a meltdown.
- D) the leaking coolant would quickly spread highly radioactive material over a large region.

Answer: <https://biology-forums.com/index.php?topic=259245>

Question 1745

The document produced by the Rio+20 conference in 2012 included

- A) having the goal of 100% sustainable agriculture by 2020.
- B) the goal of eliminating world hunger.
- C) pressing rapidly forward with the development of new GM crops.
- D) a consensus that global conditions for natural disasters, more jobs and sustainable energy were dramatically improving.

Answer: <https://biology-forums.com/index.php?topic=259015>

Question 1746

In preparation for the construction of a new, large subdivision, over 500 acres of hilly forest are cleared. In this cleared region, we will expect that

- A) more species of birds and insects will inhabit the region.

- B) a drainage system will be built to limit erosion.
- C) the overall productivity of the region will increase.
- D) the levels of carbon dioxide in the air will decline.

Answer: <https://biology-forums.com/index.php?topic=258558>

Question 1747

Which of the following activities generally occurs less frequently in the United States in the period following WWII?

- A) walking to work
- B) riding in a car
- C) eating produce from outside the United States
- D) flying to your vacation destination

Answer: <https://biology-forums.com/index.php?topic=257381>

Question 1748

The greatest threat to global biodiversity is

- A) the introduction of alien species.
- B) habitat destruction.
- C) overconsumption of rice, corn, and wheat.
- D) chemical pollution.

Answer: <https://biology-forums.com/index.php?topic=258511>

Question 1749

While enjoying a spring day off, a storm is expected. As the storm arrives and the rain begins to fall, you notice that the temperatures drop dramatically. Most likely, you have just experienced the arrival of a

- A) cold front.
- B) summer monsoon.
- C) Hadley cell.
- D) stratospheric event.

Answer: <https://biology-forums.com/index.php?topic=256582>

Question 1750

Globalization in developing countries

- A) has most benefited the poorest people.
- B) tends to level the differences between the rich and poor.
- C) can support subsistence farming by encouraging the importation of agricultural products.
- D) may threaten local attempts to market goods in developing nations.

Answer: <https://biology-forums.com/index.php?topic=258772>

Question 1751

In general, the strictest standards with the lowest acceptable levels are the

- A) criterion continuous concentration (CCC) values.
- B) criteria maximum concentration (CMC) values.
- C) maximum contaminant levels.
- D) standards for saltwater systems.

Answer: <https://biology-forums.com/index.php?topic=256957>

Question 1752

The census of 1890 highlighted the "closing of the frontier," which coincided with

- A) John Muir's conservation activities.
- B) Rachel Carson's Silent Spring.
- C) the greenbelt movement.
- D) the Dust Bowl.

Answer: <https://biology-forums.com/index.php?topic=257999>

Question 1753

Discharge permits and the Clean Air Act and Clean Water Act

- A) do not allow any wastes to be dumped into natural waterways.
- B) limit the type but not the amount of wastes dumped into natural waterways.
- C) limit the amount but not the type of wastes dumped into natural waterways.
- D) limit the type and the amount of wastes dumped into natural waterways.

Answer: <https://biology-forums.com/index.php?topic=257323>

Question 1754

Which of the following does not represent an important aspect of sound science? A scientist

- A) collects data and describes the characteristics of a particular type of lung cancer.
- B) attends a scientific meeting to reveal the effectiveness of a new lung cancer treatment.
- C) accepts funding from an industry and tries to generate data to support their products to treat lung cancer.
- D) conducts experiments to determine if a new drug is effective against a certain type of lung cancer.

Answer: <https://biology-forums.com/index.php?topic=258015>

Question 1755

The most rapidly increasing cultural risk to health in most developing countries is

- A) lack of exercise.
- B) poor nutrition.
- C) the use of tobacco.
- D) consumption of alcohol.

Answer: <https://biology-forums.com/index.php?topic=256472>

Question 1756

Sustainable development and the protection of public health require

- A) the generation of electricity from fossil fuels.
- B) governments to recognize personal liberties as the highest priority.
- C) the independence of private landowners to develop individual policies.
- D) public policies that protect the environment.

Answer: <https://biology-forums.com/index.php?topic=258103>

Question 1757

The construction of the Alaskan oil pipeline and requirements for more fuel efficient automobiles resulted from

- A) the 1970 oil crises.
- B) the Gulf War.
- C) increased trade with China.
- D) a large shift from the use of coal to oil to generate electricity.

Answer: <https://biology-forums.com/index.php?topic=259175>

Question 1758

Chlorinated hydrocarbon pesticides, like DDT, are synthetic versions of

- A) heavy metals.
- B) non-biodegradable, persistent molecules.
- C) ions and salts.
- D) vitamins and minerals.

Answer: <https://biology-forums.com/index.php?topic=259053>

Question 1759

The Green Revolution continues today, and

- A) subsistence farmers increasingly rely on sustainable agricultural methods.
- B) the harvest of shade grown coffee and rain forest nuts and fruits has been abandoned.
- C) the global amount of land used to raise crops continues to decline.
- D) high-yield varieties need expensive fertilizer, pesticides and irrigation; and ecosystem services have been lost.

Answer: <https://biology-forums.com/index.php?topic=258968>

Question 1760

Which of the following are involved in energy collection and conversion in a tree?

- A) leaves collect and chlorophyll converts
- B) leaves convert and chlorophyll collects
- C) roots collect and leaves convert
- D) seeds collect and leaves convert

Answer: <https://biology-forums.com/index.php?topic=259320>

Question 1761

In the southern Appalachian Mountains, hundreds of miles of streams and freshwater systems are destroyed in the process of

- A) stream mining, in which oil buried under the streams is harvested.
- B) mountaintop removal mining to remove coal.
- C) diverting water to run coal machines in mines deep below the Earth.
- D) moving coal from deep shaft mines to major rivers.

Answer: <https://biology-forums.com/index.php?topic=259209>

Question 1762

Devastating earthquakes struck Haiti in January 2010, forcing the native people to live under the most primitive of conditions. Which one of the following forms of immediate aid would most likely prevent the outbreak of cholera and dysentery in refugees who were not seriously harmed by the earthquakes?

- A) a large supply of clothing, dish soap, and toiletries
- B) large supplies of rice and pots to cook the rice in
- C) water purification systems and supplies of bottled water
- D) tents and blankets to help the people get away from the sun and keep warm at night

Answer: <https://biology-forums.com/index.php?topic=256932>

Question 1763

Which one of the following statements about the figure above is true?

- A) The greater number of females 85 years or older reflects an unusually high percentage of females born between 1920 and 1925.
- B) The size of each bar generally increases from the top down because of increased fertility of later generations.
- C) The declining size of bars from age 40-44 to age 30-34 most likely represents declining fertility rates.
- D) The size of each bar generally increases from the top down because of immigration.

Answer: <https://biology-forums.com/index.php?topic=258668>

Question 1764

The different Galápagos finch species

- A) evolved in South America and flew to the Galápagos Islands.
- B) evolved from a single ancestral species that flew to the Galápagos Islands.
- C) all feed on the same diet in the Galápagos Islands.
- D) are primarily different because of variations in the structure of their feet.

Answer: <https://biology-forums.com/index.php?topic=258300>

Question 1765

Women in two developed countries have similar total fertility rates of 3.5. However, women in country A typically have their children about 2 years earlier than women in country B. How will the populations of the two countries compare?

- A) The populations of both countries will be stable, with similar totals and little increase or decrease.
- B) The population of country A will increase faster than country B.
- C) The population of country B will increase faster than country A.
- D) The population of country A will increase but the population of country B will decline.

Answer: <https://biology-forums.com/index.php?topic=258662>

Question 1766

Despite much evidence to the contrary, BPA manufacturers claim the chemical is perfectly safe and to ban it would do great damage to the food industry. To ban BPA would be in harmony with

- A) the "guilty until proven innocent" policy.
- B) cost and benefit analysis.
- C) putting profits on a par with consumer safety.
- D) the precautionary principle.

Answer: <https://biology-forums.com/index.php?topic=257217>

Question 1767

A farmer extending his farm field bulldozes the banks of a creek, greatly disturbing the creek bed and stirring up clay and humus. The higher levels of clay and humus in the water just downstream will most likely result in

- A) fewer plants, fewer fish, and cloudy water.
- B) more plants but fewer fish and cloudy water.
- C) more plants and more fish but cloudy water.
- D) more plants and more fish and clearer water.

Answer: <https://biology-forums.com/index.php?topic=256951>

Question 1768

The wind patterns indicated by arrows in the figure are primarily the result of

- A) Earth's rotation.
- B) air flow over mountains.
- C) deep ocean currents cooling and warming air.
- D) global climate change.

Answer: <https://biology-forums.com/index.php?topic=258866>

Question 1769

The large peak in electrical generation from 2000-2005 represents the availability of large new amounts of

- A) natural gas and renewable energy resources.
- B) coal.
- C) nuclear power.
- D) hydroelectric power.

Answer: <https://biology-forums.com/index.php?topic=259163>

Question 1770

The best hope for the future global economy and environmental policy depends upon

- A) sustainability.
- B) economic growth.
- C) consumption.
- D) productivity.

Answer: <https://biology-forums.com/index.php?topic=258069>

Question 1771

Which of the following would most reduce the productivity of a 10-acre forest?

- A) paving a 2-lane dirt road through the forest
- B) removing the topsoil from the forest
- C) cutting down the largest trees in the forest
- D) adding millions of earthworms to the forest soil

Answer: <https://biology-forums.com/index.php?topic=258914>

Question 1772

Productivity of an ecosystem is best determined by the

- A) total amount of biomass in the system.
- B) number of individuals of each species.
- C) number of species present in the ecosystem.
- D) total photosynthesis each year.

Answer: <https://biology-forums.com/index.php?topic=258343>

Question 1773

Which of the following is least associated with economics?

- A) A miner pans for gold in the mountains of California.
- B) An artist sells her paintings in an art gallery.
- C) Studying the sky, a child looks for faces in the clouds.
- D) A waitress carefully wipes down tables before heading home from a long day.

Answer: <https://biology-forums.com/index.php?topic=258057>

Question 1774

Compared to solar generated electricity, hydroelectric systems

- A) are advantageous because they produce significantly less greenhouse gas.
- B) are advantageous because they run as well at night as during the day.
- C) do not last as long as most solar technologies.
- D) cannot produce as much electricity as solar technologies.

Answer: <https://biology-forums.com/index.php?topic=259350>

Question 1775

The Obama administration has recently revised the CAFE standards affecting fuel economy of personal vehicles by mandating

- A) higher mileage four years sooner, in 2016.
- B) higher mileage in the same period, in 2020.
- C) lower mileage in the same period, in 2020.
- D) lower mileage about four years later, in 2024.

Answer: <https://biology-forums.com/index.php?topic=259217>

Question 1776

The most promising immediate alternative to gasoline fueled vehicles in a time of global climate change and increasing oil imports is powering vehicles using

- A) solar power.
- B) hydrogen as a fuel source.
- C) fuel cells using hydrogen.
- D) plug-in hybrid electric vehicles.

Answer: <https://biology-forums.com/index.php?topic=259382>

Question 1777

Atmospheric scientists often measure gases in parts per million by weight (ppm). If CO₂ is currently 0.04% of the atmosphere, the level expressed in ppm is

- A) 4 ppm.
- B) 4000 ppm.
- C) 400 ppm.
- D) 0.004 ppm.

Answer: <https://biology-forums.com/index.php?topic=256738>

Question 1778

A poacher kills polar bears in Alaska and ships their skins to buyers in Asia. The poacher is most likely in violation of laws that come from the

- A) Endangered Species Coalition and the Animal Protection Institute.
- B) Endangered Species Act and CITES.
- C) National Wildlife Association and Audubon Society.
- D) World Wildlife Fund and the Alaska Wildlife Alliance.

Answer: <https://biology-forums.com/index.php?topic=258506>

Question 1779

Even-aged and uneven-aged management are used in

- A) the lobster industry.
- B) silviculture.
- C) fishing industries.
- D) habitat restoration.

Answer: <https://biology-forums.com/index.php?topic=258563>

Question 1780

Which of the following is true or accurate about the transition to renewable energies?

- A) Coal can continue to be used as long as we keep atmospheric CO₂ levels below 800 ppm.
- B) Natural gas, which produces less CO₂ when burned, can serve as a "bridge energy" to the development of enough renewable energies.
- C) At present none of the U.S. states has any requirements or goals for the transition.
- D) Venture capitalists have invested very little in global renewable energy because of uncertainty about its effectiveness.

Answer: <https://biology-forums.com/index.php?topic=259312>

Question 1781

Which of the following groups would represent the primary stakeholders in this dispute?

- A) representatives of the mining company
- B) the native people
- C) representatives of the Brazilian government
- D) all of the citizens of Brazil

Answer: <https://biology-forums.com/index.php?topic=258396>

Question 1782

Which of the following best illustrates an intergenerational consideration?

- A) increasing health-care insurance for every citizen in a country
- B) rationing gasoline in a time of short supply

- C) reducing the harvest of blue fin tuna to sustainable levels
- D) depleting a forest to produce firewood for use in heating and cooking

Answer: <https://biology-forums.com/index.php?topic=258099>

Question 1783

The "rule of law index" is a measure of

- A) the capacity of the prisons and jails in a country.
- B) the penalties imposed for the violation of certain standard laws.
- C) justice and the structure of social systems in a society.
- D) the number of financial institutions and industries, which experience crime.

Answer: <https://biology-forums.com/index.php?topic=258098>

Question 1784

You are out camping in a remote region away from all civilization. The next day, you plan to hike around and return to camp before dusk. Your friends suggest that after hiking, you might want to enjoy a warm shower. They suggest that before you head out in the morning, you should suspend a strong, black cloth bag full of about 5 gallons of water, so that it sits in sunshine all day. When you return, the water should be warm, and you can enjoy a luxury because of good planning. It works and you are delighted and refreshed! The process that you used to get a warm shower illustrates

- A) passive solar heating.
- B) active solar heating.
- C) solar space heating.
- D) flat-plate collection.

Answer: <https://biology-forums.com/index.php?topic=259322>

Question 1785

When corn is used to produce ethanol for fuel, the process also generates

- A) proteins and cellulose.
- B) biodiesel and natural gas.
- C) livestock feed and corn oil.
- D) methane used to heat thousands of homes.

Answer: <https://biology-forums.com/index.php?topic=259367>

Question 1786

Some lakes have river and stream tributaries but no outlet, losing water mainly through evaporation. Over time, we expect that such lakes will

- A) increase their fishing productivity.
- B) become deeper.
- C) become saltier.
- D) be good sources of drinking water.

Answer: <https://biology-forums.com/index.php?topic=258797>

Question 1787

The EPA has recently set a strict policy of monitoring the Total Maximum Daily Load (TMDL) of nutrients in order to reverse eutrophication in

- A) the Mississippi River.
- B) Everglades National Park.
- C) Lake Michigan.
- D) Chesapeake Bay.

Answer: <https://biology-forums.com/index.php?topic=257046>

Question 1788

A tidal barrage would be used to generate electricity

- A) at the mouth of a bay.
- B) at the bottom of a large lake.
- C) near the tip of an ocean peninsula.
- D) in the open ocean.

Answer: <https://biology-forums.com/index.php?topic=259388>

Question 1789

A well-trained member of the Peace Corps is asked to provide assistance to a village in India that suffers greatly from typhoid fever. The best long-term solution to reduce the cases of this disease in this village is to

- A) encourage people to always wash their hands using antibacterial soap.
- B) clearly separate their sewage from drinking water sources.

C) teach the people to cover their coughs and sneezes to avoid disease transmission.

D) increase the amount of vitamins C and E in the diet of these villagers.

Answer: <https://biology-forums.com/index.php?topic=256923>

Question 1790

Which one of the following is a trait that increases the chances of survival for an endangered species?

A) large size

B) a food source consisting of a single species

C) widespread distribution

D) small number of offspring

Answer: <https://biology-forums.com/index.php?topic=258289>

Question 1791

Which one of the following best illustrates a situation most likely to reduce extreme poverty?

A) Farmers are encouraged to sell their land in an effort to create large farms that can be managed more efficiently.

B) Children of the poorest families attend school without any cost, including school lunches.

C) Banks are provided with tax incentives to help people purchase a home.

D) All members of the poorest families over the age of 10 are provided with jobs on farms, helping to provide food for all the impoverished members of their community.

Answer: <https://biology-forums.com/index.php?topic=258721>

Question 1792

Risk assessment by the EPA currently follows four sequential steps. In order, these are

A) exposure determination, dose-response determination, hazard control, and risk identification.

B) risk identification, hazard characterization, dose-response determination, and exposure control.

C) hazard assessment, dose-response assessment, exposure assessment, and risk characterization.

D) risk characterization, exposure assessment, dose-response assessment, and hazard assessment.

Answer: <https://biology-forums.com/index.php?topic=256526>

Question 1793

Rabbits in Australia

A) have recently been eliminated by introducing a lethal rabbit virus.

B) are an example of the disastrously high biotic potential of some introduced species.

C) evolved with marsupials and are a natural part of the Australian landscape.

D) have now evolved into three new species as the rabbits have adapt to their new environments.

Answer: <https://biology-forums.com/index.php?topic=258308>

Question 1794

Head restraints on the back of the seats of most automobiles can prevent whiplash in an accident. Most of these head restraints are large enough that they function without any adjustment. These head restraints are an example of

A) inherent design flaws.

B) active safety.

C) passive safety.

D) reverse engineering.

Answer: <https://biology-forums.com/index.php?topic=259277>

Question 1795

Two older factory workers were discussing all the government regulations that limit how they can dispose of their factory's wastes. One worker notes, "You know, we didn't use to have all these regulations. In fact, there were almost no regulations controlling what we could put in the air, water, or underground before the

A) 1990s and the beginning of OSHA."

B) 1980s and the beginning of SARA."

C) 1970s. and the beginning of the CAA and CWA."

D) 1960s and the beginning of the EPA."

Answer: <https://biology-forums.com/index.php?topic=257321>

Question 1796

The threshold level for harmful effects of toxic pollutants is most closely related to the

A) first appearance of chronic effects.

B) duration of exposure.

- C) concentration of exposure.
- D) concentration and duration of exposure.

Answer: <https://biology-forums.com/index.php?topic=257225>

Question 1797

The philosophy of the Endangered Species Act primarily reflects

- A) anthropocentric values.
- B) instrumental values.
- C) intrinsic values.
- D) economic interests.

Answer: <https://biology-forums.com/index.php?topic=258498>

Question 1798

Ecosystem sustainability primarily results from the

- A) relationships between the organisms in an ecosystem.
- B) number of predators found in the ecosystem.
- C) frequency of fires or other natural disasters in an ecosystem.
- D) total amount of biomass that exists in an ecosystem.

Answer: <https://biology-forums.com/index.php?topic=258405>

Question 1799

Controlling the Spotted Knapweed reveals

- A) the complex set of relationships in ecosystems.
- B) a simple solution to the problem of many introduced species.
- C) the need for widespread biological control to fight invasive species.
- D) the importance of spraying herbicides to fight invasive species.

Answer: <https://biology-forums.com/index.php?topic=258313>

Question 1800

In passive solar units that heat water, the water moves because

- A) flat-plate collectors are facing the sun.
- B) heated water rises up from low-positioned flat-plate collectors to the water tank.
- C) wind-powered pumps move the water through the system.
- D) an electric water pump moves the water through the system.

Answer: <https://biology-forums.com/index.php?topic=259321>

Question 1801

In general, as a country goes through the demographic transition, it experiences a

- A) rising dependency ratio that increases the demographic dividend.
- B) rising dependency ratio that decreases the demographic dividend.
- C) falling dependency ratio that increases the demographic dividend.
- D) falling dependency ratio that decreases the demographic dividend.

Answer: <https://biology-forums.com/index.php?topic=258704>

Question 1802

This figure reveals

- A) just two soil horizons.
- B) a soil profile.
- C) soil leaching.
- D) five soil orders.

Answer: <https://biology-forums.com/index.php?topic=258896>

Question 1803

Compared to the use of fossil fuels, wind energy

- A) is more consistent.
- B) requires no investment.
- C) produces no exhaust pollutants and contributes little to global climate change.
- D) is not renewable.

Answer: <https://biology-forums.com/index.php?topic=259304>

Question 1804

In some deserts, there are mice and lizards that are about the same size. The mice eat grains and the lizards feed on insects. Given this information, we would expect that the biomass of the

- A) lizards would be about the same as the mice.
- B) lizards would be greater than the mice.
- C) mice would be greater than the lizards.
- D) lizards and mice would be about 10 times greater than the organisms that they consume.

Answer: <https://biology-forums.com/index.php?topic=258339>

Question 1805

Natural modes of nitrogen fixation are

- A) various industrial processes of making fertilizers.
- B) fossil fuel combustion.
- C) lightning and bacterial fixation in soils.
- D) denitrification and various industrial processes.

Answer: <https://biology-forums.com/index.php?topic=258227>

Question 1806

On a hot day with bright sunlight and plenty of water in the soil, a plant actively engaged in photosynthesis will use its stomata to move

- A) water and oxygen from the plant and take in carbon dioxide.
- B) water and carbon dioxide from the plant and take in oxygen.
- C) oxygen and carbon dioxide from the plant and take in water.
- D) water from the plant and take in carbon dioxide and oxygen.

Answer: <https://biology-forums.com/index.php?topic=258898>

Question 1807

Which of the following activities is most directly related to the dead zones in the Gulf of Mexico just west of the Mississippi River?

- A) extensive shrimp fishing
- B) farming in the Midwest
- C) burning coal to generate electricity in the Midwest
- D) barge traffic on the Mississippi River

Answer: <https://biology-forums.com/index.php?topic=256894>

Question 1808

If the radiation you received from your X-ray does pose a health risk, how can this radiation cause the greatest harm?

- A) Your DNA in cells that were radiated may be damaged by causing mutations.
- B) Enough of your blood cells in the irradiated region may have been killed to make you sick.
- C) Your nerves in the irradiated region may have been killed, causing you to lose sensation and control.
- D) Most of the cells in the irradiated region were heated and killed by the X-ray energy.

Answer: <https://biology-forums.com/index.php?topic=259257>

Question 1809

The two natural organic compounds on the left (ethylene and ethane) have been chemically converted into

- A) halogenated hydrocarbons.
- B) radioactive isotopes.
- C) heavy metal insecticide.
- D) biodegradable and non-toxic herbicides.

Answer: <https://biology-forums.com/index.php?topic=257270>

Question 1810

Using the GINI index, more than any other high-income country, the United States has

- A) the lowest life expectancies and more children in poverty.
- B) more people in prison and fewer children in poverty.
- C) the highest life expectancies, fewer people in prison, and more children in poverty.
- D) the lowest life expectancies, more people in prison, and more children in poverty.

Answer: <https://biology-forums.com/index.php?topic=258654>

Question 1811

The most widespread negative health impact of air pollution is the

- A) destruction of the cellular components of the immune system.
- B) loss of the ability to absorb vital nutrients by the digestive system.
- C) disruption of the signaling processes of the endocrine system.
- D) chronic stress that weakens many systems of the body.

Answer: <https://biology-forums.com/index.php?topic=256818>

Question 1812

Over the next 20-30 years,

- A) global oil supplies will decline and the OPEC nations will gain importance.
- B) global oil supplies will decline and the OPEC nations will lose importance.
- C) global oil supplies will increase and the OPEC nations will gain importance.
- D) global oil supplies will increase and the OPEC nations will lose importance.

Answer: <https://biology-forums.com/index.php?topic=259195>

Question 1813

The responsibility for the weekly collection and disposal of MSW from households largely falls under the jurisdiction of

- A) local governments.
- B) states.
- C) the federal government.
- D) international treaties.

Answer: <https://biology-forums.com/index.php?topic=257066>

Question 1814

Using a natural ravine as a site for a landfill will most likely cause problems related to

- A) settling.
- B) methane production.
- C) incomplete decomposition.
- D) contamination of natural waterways.

Answer: <https://biology-forums.com/index.php?topic=257078>

Question 1815

The cassava is an important food crop for people living in sub-Saharan Africa. In the 1970s, mealybug infestations destroyed harvests and people starved. A researcher who studied the mealybug in its native environment discovered a parasitoid wasp that was a natural predator. After extensive testing to determine safety, the parasitoid wasp was introduced into the sub-Saharan region with tremendous effect controlling the mealybug throughout most of Africa. This approach represented a form of

- A) cultural control.
- B) natural enemies control.
- C) genetic control.
- D) natural chemical control.

Answer: <https://biology-forums.com/index.php?topic=259103>

Question 1816

Cattle and termites both have symbiotic microorganisms living in their digestive tracts that help these animals by

- A) digesting cellulose.
- B) producing oxygen.
- C) producing large organic molecules.
- D) releasing kilocalories.

Answer: <https://biology-forums.com/index.php?topic=258336>

Question 1817

Which of the following analogies best illustrates the credit-debt trap?

- A) A country must refinance a loan from 10 to 30 years to be able to make payments.
- B) A company is paying off a 15-year loan on an investment that will not produce revenues for five years.
- C) A family must take on additional jobs to pay back loans needed to provide a home and food.
- D) A person is only able to pay some of the interest, and none of the principal, of a large credit card bill.

Answer: <https://biology-forums.com/index.php?topic=258733>

Question 1818

We can expect that as mangroves continue to be destroyed worldwide,

- A) coastal erosion will increase.
- B) fish populations around the world will increase.
- C) the pH of the oceans will increase.
- D) the aquaculture of prawns will decrease.

Answer: <https://biology-forums.com/index.php?topic=258589>

Question 1819

Which of the following organisms has the greatest anthropocentric value?

- A) salmon
- B) termites
- C) mosquitoes
- D) lichens

Answer: <https://biology-forums.com/index.php?topic=258411>

Question 1820

The number of reactants and products varies in fission and fusion reactions.

- A) Fission begins with one reactant and yields two atomic products and a release of energy.
- B) Fission begins with two reactants and yields one atomic product and a release of energy.
- C) Fusion combines three reactants and yields one atomic product and a release of energy.
- D) Fusion begins with one reactant and yields two atomic products and a release of energy.

Answer: <https://biology-forums.com/index.php?topic=259237>

Question 1821

The detritus food web illustrated in the lower right of this diagram primarily occurs in the

- A) E horizon.
- B) O horizon.
- C) B horizon.
- D) C horizon.

Answer: <https://biology-forums.com/index.php?topic=258897>

Question 1822

One of the most common sources of phosphate pollution that has led to eutrophication has resulted from the use of

- A) dishwashing detergents.
- B) gasoline additives.
- C) toothpastes.
- D) artificial sweeteners.

Answer: <https://biology-forums.com/index.php?topic=257027>

Question 1823

You want to have the best outdoor experience possible, experiencing life in the least disturbed ecosystems in the United States. The best place to visit would be a

- A) state park.
- B) wilderness area.
- C) military property.
- D) wildlife refuge.

Answer: <https://biology-forums.com/index.php?topic=258592>

Question 1824

The environmental movement was a grassroots initiative that

- A) primarily addressed growing pollution of the environment.
- B) has remained focused on issues related to renewable energy.
- C) directly led to the green revolution.
- D) has focused on efforts to control infectious diseases throughout the world.

Answer: <https://biology-forums.com/index.php?topic=258005>

Question 1825

As of 2012, more than 70% of the cost of toxic waste cleanup for most sites has been paid for by

- A) increasing taxes in the region affected.
- B) increased sales taxes in the affected state.
- C) federal dollars in the Superfund.

D) the polluters.

Answer: <https://biology-forums.com/index.php?topic=257293>

Question 1826

Advocates of the Precautionary Principle as it applies to biosafety of GM organisms feel that

- A) no nation has the right to deny the importation of products.
- B) if there is the possibility of negative consequences, selling GM crop products should not be encouraged.
- C) testing the safety of bioengineered organisms is not realistic.
- D) science should not be allowed to be used to direct government policy.

Answer: <https://biology-forums.com/index.php?topic=258996>

Question 1827

With billions of dollars already spent to fight AIDS and the need for much more money, which of the following represents the best strategy to fight AIDS in the world?

- A) increase preventive measures to slow new infections, especially changes in sexual behavior
- B) create, manufacture, and distribute as widely as possible a new AIDS vaccine
- C) produce generic versions of drugs known to be effective against HIV
- D) adopt policies to quarantine large populations of HIV infected people to prevent further spread of HIV

Answer: <https://biology-forums.com/index.php?topic=258759>

Question 1828

Over the past two decades the consumptive use of fuelwood has

- A) increased and is causing a worsening problem of deforestation and erosion.
- B) declined as developing nations use charcoal and fossil fuels and has become less of a threat to ecosystem sustainability.
- C) become a major industry in the United States especially in urban areas, replacing fossil fuels in many regions.
- D) shifted from productive to consumptive use.

Answer: <https://biology-forums.com/index.php?topic=259362>

Question 1829

The Obama administration has moved to combat urban sprawl through the

- A) Clean Air Act.
- B) Clean Water Act.
- C) American Recovery and Reinvestment Act.
- D) ISTEA.

Answer: <https://biology-forums.com/index.php?topic=257440>

Question 1830

In the United States, over the past 30 years, the population has

- A) increased, and the amount of water each person consumes has increased.
- B) increased, but the amount of water each person consumes has leveled off.
- C) decreased, but the amount of water each person consumes has increased.
- D) decreased, and the amount of water each person consumes has decreased.

Answer: <https://biology-forums.com/index.php?topic=258852>

Question 1831

Unlike industrial smog, photochemical smog occurs in regions that

- A) experience frequent fog.
- B) generate electricity by burning coal.
- C) are far away from large bodies of water.
- D) have high levels of sunshine.

Answer: <https://biology-forums.com/index.php?topic=256760>

Question 1832

Which one of the following best represents the productive use of a natural resource?

- A) A man in Colorado burns wood from his property as a source of heat for his home.
- B) A family on vacation catches trout, which they will enjoy for dinner that evening.
- C) A woman gathers mushrooms from a forest to sell in the local produce market.
- D) Deep in the Congo, a man kills a bush pig to feed his family for the next week.

Answer: <https://biology-forums.com/index.php?topic=258537>

Question 1833

Which of the following represents a type of mutualism?

- A) A red-tailed hawk pounces on a field mouse for dinner.
- B) A large herd of zebra graze lazily across the broad savannah.
- C) A mosquito draws a blood meal from the back of an elk.
- D) A honeybee feeds on nectar at a flower on an orange tree and pollinates the flower.

Answer: <https://biology-forums.com/index.php?topic=258263>

Question 1834

The major fossil fuels differ in the amount of carbon dioxide they emit into the atmosphere when burned. From worst to least, these are

- A) coal, natural gas, and oil.
- B) coal, oil, and natural gas.
- C) oil, natural gas, and coal.
- D) natural gas, oil, and coal.

Answer: <https://biology-forums.com/index.php?topic=259214>

Question 1835

If we wanted to improve the efficiency of technology to reduce electrical power consumption, the sectors we would choose are

- A) industrial and transportation.
- B) residential and commercial.
- C) commercial and industrial.
- D) residential and transportation.

Answer: <https://biology-forums.com/index.php?topic=259162>

Question 1836

A keystone species

- A) has a disproportionately large impact on the stability of an ecosystem.
- B) typically reduces overall biodiversity of an ecosystem.
- C) is typically an herbivore.
- D) is an example of amensalism.

Answer: <https://biology-forums.com/index.php?topic=258271>

Question 1837

What do the GDP and the World Bank both fail to include in their measures of wealth?

- A) the importance of law and order in a society
- B) the gradual deterioration of machinery used in industrial manufacturing
- C) the income from the sales of goods abroad
- D) natural services provided by ecosystems

Answer: <https://biology-forums.com/index.php?topic=258090>

Question 1838

According to the Global Biodiversity Outlook in 2010, groups showing highest extinction risk are

- A) cycads and conifers
- B) birds, amphibians and freshwater fish
- C) corals and freshwater crabs
- D) invasive species in general

Answer: <https://biology-forums.com/index.php?topic=258431>

Question 1839

You learn that an old friend has died from a disease that resulted from their lifelong exposure to a substance. This loved one most likely died from

- A) whooping cough.
- B) a bacterial infection.
- C) cancer.
- D) malaria.

Answer: <https://biology-forums.com/index.php?topic=256458>

Question 1840

Which one of the following is a proper scientific name of an animal?

- A) white oak tree
- B) Homo sapiens
- C) bamboo
- D) American alligator

Answer: <https://biology-forums.com/index.php?topic=258138>

Question 1841

- A hydroturbogenerator would be found
- A) at a hydroelectric dam.
 - B) at a coal-fired power plant.
 - C) inside of a wind mill used to generate electricity.
 - D) in a power plant that uses oil for fuel.

Answer: <https://biology-forums.com/index.php?topic=259148>

Question 1842

- Within a community, species of
- A) plants rarely interact with fungi or bacteria.
 - B) bacteria, plants, animals, and fungi all interact.
 - C) plants and animals interact, but not with bacteria or fungi.
 - D) bacteria and fungi interact with plants but not animals.

Answer: <https://biology-forums.com/index.php?topic=258147>

Question 1843

- This plant is the rosy periwinkle, which produces chemicals that are important in the treatment of several types of cancer. This medically significant plant represents the potential of
- A) bioengineering.
 - B) genetic therapy.
 - C) the fields of bioinformatics and agriculture
 - D) the fields of ethnobotany and bioprospecting

Answer: <https://biology-forums.com/index.php?topic=258426>

Question 1844

- Unlike most species, human population ecology must also include consideration of the
- A) interactions of the global human population.
 - B) impact of infectious disease on mortality.
 - C) ability of humans to construct safe places to live.
 - D) impact of severe weather on human health and safety.

Answer: <https://biology-forums.com/index.php?topic=258612>

Question 1845

- A stable population would remain at equilibrium if
- A) the birth rate increased as the death rate decreased.
 - B) emigration rates and death rates increased equally.
 - C) births and immigration increased by the same number of organisms.
 - D) births and deaths increased by the same number of organisms.

Answer: <https://biology-forums.com/index.php?topic=258233>

Question 1846

- Planned Parenthood and the UNFPA are
- A) agencies that advocate abortion and operate within the United States.
 - B) agencies that give broadly based assistance to clients within the United States.
 - C) international family planning agencies that do not operate within the United States.
 - D) international agencies that provide broadly based family planning services in developing nations.

Answer: <https://biology-forums.com/index.php?topic=258766>

Question 1847

- The advice of Rachel Carson in her book Silent Spring reflects
- A) stewardship.
 - B) an urgent need for sustainable use of petroleum.
 - C) junk science.

D) a plea for population control.

Answer: <https://biology-forums.com/index.php?topic=258041>

Question 1848

Which of the following is an example of the greatest cause of biodiversity loss in the world today?

- A) In the United States, the Army Corps of Engineers reroutes major rivers to improve the waterways for commercial navigation.
- B) In Brazil, ranchers cut and burn rain forest to clear fields for grazing cattle.
- C) In the United States, large fields once used to plant corn and soybeans are being converted for housing developments and commercial properties.
- D) In northern Canada, native people continue to hunt seals and harvest fish from arctic seas.

Answer: <https://biology-forums.com/index.php?topic=257990>

Question 1849

The Megatons to Megawatts program involves a U.S.-Russian agreement to

- A) use uranium from Russian nuclear warheads as fuel for U.S. nuclear power plants.
- B) use uranium from U.S. nuclear warheads as fuel for Russian nuclear power plants.
- C) store high-level nuclear waste in common sites, buried in the bottom of the Atlantic Ocean.
- D) convert uranium from nuclear weapons into fuel to power spacecraft.

Answer: <https://biology-forums.com/index.php?topic=259265>

Question 1850

Outcomes of the Kyoto Conference of 1997 were that

- A) all of the developed nations have significantly reduced GHG emissions.
- B) developing nations refused to sign the GHG protocol.
- C) the largest GHG emitters—India, China, and the United States—did not participate.
- D) Japan, Canada, and Russia met their GHG reduction pledges.

Answer: <https://biology-forums.com/index.php?topic=256723>

Question 1851

To meet the Clean Air Act Amendments of 1990,

- A) the EPA will no longer strictly enforce NAAQS standards.
- B) each state must develop a strategy to meet NAAQS standards for all major pollutants.
- C) state implementation plans apply only to sulfur and nitrogen oxide emissions.
- D) states with large industrial air pollutant emissions are exempt from EPA scrutiny.

Answer: <https://biology-forums.com/index.php?topic=256844>

Question 1852

The negative impacts of ozone pollution on forests are expected to increase as

- A) ocean levels rise and wind patterns shift.
- B) organisms spread northward because of warming climate conditions.
- C) the increasing demand for timber further stresses the growth of trees.
- D) temperatures increase and precipitation becomes more unpredictable.

Answer: <https://biology-forums.com/index.php?topic=256823>

Question 1853

Which one of the following best illustrates consumptive use of a resource?

- A) A farmer raises 1,000 acres of soybeans in Illinois.
- B) A fishing vessel hauls in 100 tons of tuna for sale on the open market.
- C) A farmer in Indiana shoots a wild turkey for his Thanksgiving dinner.
- D) A shrimp farm in Thailand raises shrimp to sell in China.

Answer: <https://biology-forums.com/index.php?topic=258535>

Question 1854

Plants that can best resist a variety of environmental challenges are most likely

- A) domesticated plants with little genetic variation.
- B) cultivars with little genetic variation.
- C) wild plants with high degrees of variation.
- D) wild plants with low degrees of variation.

Answer: <https://biology-forums.com/index.php?topic=258415>

Question 1855

Adaptation takes place in response to

- A) anticipated needs.
- B) selective pressures they have not yet experienced.
- C) only the selective pressures they experience.
- D) only selective pressures that favor survival.

Answer: <https://biology-forums.com/index.php?topic=258295>

Question 1856

The greatest public health concerns about the H5N1 bird flu virus, as recently highlighted in the potentially dangerous dual-use experiments, is that it will

- A) be spread from one bird to another.
- B) be spread from birds to people.
- C) spread out of the country of Australia.
- D) spread from person to person.

Answer: <https://biology-forums.com/index.php?topic=259398>

Question 1857

Generating electricity with a windmill located next to a home

- A) is more efficient than transmitting electricity over long distances.
- B) is less efficient than at a distance, because the wind draws heat away from the home.
- C) increases the energy lost, according to the Second Law of Thermodynamics.
- D) depends upon a hydroturbogenerator spinning a magnetic field within copper wire.

Answer: <https://biology-forums.com/index.php?topic=259147>

Question 1858

Examine the food web described by this figure. Which of the following organisms is at the highest trophic level?

- A) carnivorous zooplankton
- B) small fish
- C) beluga whale
- D) arctic terns

Answer: <https://biology-forums.com/index.php?topic=258333>

Question 1859

Because of catalytic converters on the exhaust systems of automobiles, you breathe air with lower levels of

- A) carbon monoxide, VOCs, and nitrogen oxides.
- B) carbon dioxide and ammonia.
- C) carbon monoxide and sulfur dioxide.
- D) carbon dioxide and nitrogen oxides.

Answer: <https://biology-forums.com/index.php?topic=256850>

Question 1860

The people using this river increase their health risks the most if they use the same area of the river for drinking and

- A) bathing.
- B) public boat transportation.
- C) disposal of sewage.
- D) religious rituals and washing their clothes.

Answer: <https://biology-forums.com/index.php?topic=256925>

Question 1861

Recent events indicate that when permission for exemption from the CITES agreement is granted to allow the sale of legally collected ivory,

- A) there is no longer a market for elephant ivory.
- B) the elephant population increases.
- C) the sale of poached ivory decreases.
- D) the sale of poached ivory increases.

Answer: <https://biology-forums.com/index.php?topic=258505>

Question 1862

A city is considering the location of its next landfill. According to EPA requirements for new landfills, the city should consider

- A) a region near an airport.
- B) a region prone to earthquakes.
- C) a low swampy region near a river.
- D) an elevated region above the water table.

Answer: <https://biology-forums.com/index.php?topic=257094>

Question 1863

According to demographer Joel Cohen, the human carrying capacity

- A) can be calculated in the same way it is determined for other animal species.
- B) depends upon a standard of living.
- C) can clearly be determined.
- D) largely depends upon the availability of fresh water.

Answer: <https://biology-forums.com/index.php?topic=258634>

Question 1864

People living in cities from the late 1850s through at least the 1930s, often

- A) used electricity generated by oil and natural gas fuels.
- B) purchased wood to heat their homes.
- C) suffered respiratory diseases.
- D) rode on trains that were powered by natural gas.

Answer: <https://biology-forums.com/index.php?topic=259137>

Question 1865

Along the shoreline of a pond, Canadian geese, American toads, and grass frogs search for food while bluegill and bass prey on small fish in the shallow water. These species, living and feeding in this particular location, represent one

- A) species.
- B) population.
- C) community.
- D) ecosystem.

Answer: <https://biology-forums.com/index.php?topic=258231>

Question 1866

In general, the global reliance on nuclear power to generate electricity

- A) has declined annually since 1987.
- B) has remained steady since about 1978.
- C) has gradually increased at about 3% a year for the last decade.
- D) has doubled in the last decade.

Answer: <https://biology-forums.com/index.php?topic=259233>

Question 1867

Urban sprawl is associated with

- A) low residential density.
- B) high physical separation between homes, work, and shopping.
- C) congested traffic due to inadequate road networks.
- D) low residential density, high physical separation between homes, work, and shopping, and congested traffic due to inadequate road networks.

Answer: <https://biology-forums.com/index.php?topic=257407>

Question 1868

Cap-and-trade programs

- A) were already in use by the European Union before 2010.
- B) have never been utilized because of their high costs.
- C) were first widely used in the United States for power companies in 1990.
- D) only apply to non-GHG emitting forms of electrical generation.

Answer: <https://biology-forums.com/index.php?topic=256706>

Question 1869

In the near future, the benefits of biofuel production may be enjoyed while reducing the impact on the global production of grain. One such promising approach is to

- A) bioengineer cattle and goats to produce ethanol in their milk.

- B) produce biofuels from grasses and timber wastes instead of corn.
- C) use the large amounts of animal wastes to produce ethanol.
- D) find ways to convert oil and natural gas into ethanol.

Answer: <https://biology-forums.com/index.php?topic=258978>

Question 1870

An abandoned field in an industrial region has been found to contain high levels of nonbiodegradable organic compounds. Recognizing the specific nature of the contaminants, plants that accumulate these chemicals are grown on the soil and then disposed of as toxic waste. This cleanup method illustrates

- A) bioremediation.
- B) phytoremediation.
- C) hydroponic intervention.
- D) remediation by incineration.

Answer: <https://biology-forums.com/index.php?topic=257296>

Question 1871

The GDP and the GPI both include calculations of the

- A) labor that goes into housework, parenting, and volunteer work.
- B) cost of pollution.
- C) cost of crime.
- D) income from the sale of natural products.

Answer: <https://biology-forums.com/index.php?topic=258094>

Question 1872

Efforts to limit global deforestation should be concentrated

- A) in the northern hemisphere.
- B) in the developing regions of the world.
- C) wherever there is the greatest concentration of people.
- D) in regions with the highest production of agricultural crops.

Answer: <https://biology-forums.com/index.php?topic=258559>

Question 1873

In most developed countries, an epidemiologic transition

- A) was followed by a fertility transition resulting in a demographic transition.
- B) prevented a fertility transition resulting in a demographic transition.
- C) resulted from increased deaths due to epidemics and social conditions.
- D) was followed by an increase in birth rates and an increase in death rates.

Answer: <https://biology-forums.com/index.php?topic=258685>

Question 1874

During a spring flood, a small lake receives a large influx of nutrients. We would expect that in this lake, the growth of phytoplankton will

- A) decrease and the growth of submerged aquatic vegetation will decrease.
- B) decrease and the growth of submerged aquatic vegetation will increase.
- C) increase and the growth of submerged aquatic vegetation will decrease.
- D) increase and the growth of submerged aquatic vegetation will increase.

Answer: <https://biology-forums.com/index.php?topic=257007>

Question 1875

Wild turkey populations in the United States have made a dramatic recovery in large part because of

- A) the Endangered Species Act.
- B) the Lacey Act.
- C) hunting restrictions.
- D) the elimination of wolves in their native environments.

Answer: <https://biology-forums.com/index.php?topic=258504>

Question 1876

When an herbicide is typically sprayed on a field, it breaks down in the presence of sunlight into a new molecule. Researchers hope to investigate whether the new molecule occurs in municipal water samples and well water in a rural community in Minnesota. This water testing, and a determination of the amount of chemical ingested by members of the community, represents a type of

- A) exposure assessment.

- B) dose-response assessment.
- C) hazard assessment.
- D) risk characterization.

Answer: <https://biology-forums.com/index.php?topic=256535>

Question 1877

The Comprehensive Everglades Restoration Plan (CERP) has as one of its major goals to

- A) pump excess water out of the Everglades system into the Atlantic.
- B) drain Lake Okeechobee to increase the amount of water in the Everglades wetlands.
- C) redirect water southward to provide water for cities and farms and restore some of the drained wetlands.
- D) expand the agricultural region from 550,000 to 900,000 acres.

Answer: <https://biology-forums.com/index.php?topic=258604>

Question 1878

The primary habitat of the river dolphin is

- A) uninhabited by humans.
- B) subject to periodic fires and drought.
- C) also inhabited by many other fresh water dolphin species.
- D) the Sundarbans, the world's largest mangrove forest.

Answer: <https://biology-forums.com/index.php?topic=258401>

Question 1879

Currently, the greatest supply of natural gas in the United States is

- A) associated with petroleum deposits.
- B) in gas-rich shale.
- C) obtained by chemically converting petroleum into methane.
- D) in deposits of coal lying under Arizona and California.

Answer: <https://biology-forums.com/index.php?topic=259201>

Question 1880

World population growth over the past 500 years has most resembled the letter

- A) M.
- B) U.
- C) S.
- D) J.

Answer: <https://biology-forums.com/index.php?topic=257981>

Question 1881

Examine the trends in the GDP and GPI. The GPI has remained fairly level because of

- A) the failure to include the depreciation of natural capital and ecosystem services.
- B) the decreasing environmental and social costs of economic activity.
- C) the rising environmental and social costs of economic activity.
- D) increasing education, better social programs, and overall reductions in crime.

Answer: <https://biology-forums.com/index.php?topic=258096>

Question 1882

Fossil fuels are considered non-renewable sources of energy because

- A) their formation is so slow.
- B) they release carbon dioxide when they are burned.
- C) people are cutting down too many forests to allow trees to turn into coal.
- D) carbon dioxide levels in the atmosphere are too low to allow fossil fuels to form.

Answer: <https://biology-forums.com/index.php?topic=259165>

Question 1883

As of 2011 in the United States, about 8% of electrical power came from

- A) burning biomass.
- B) hydropower.
- C) solar energy.
- D) wind.

Answer: <https://biology-forums.com/index.php?topic=259305>

Question 1884

About half of all U.S. MSW consists of

- A) food wastes.
- B) plastics and metals.
- C) glass, rubber, and wood.
- D) paper products and yard waste.

Answer: <https://biology-forums.com/index.php?topic=257118>

Question 1885

The 2011 EPA standards for mercury and air toxics will reduce pollutants dramatically from

- A) nuclear power plants.
- B) oil and coal-fired power plants.
- C) paper mills and CAFOs.
- D) electric hybrid cars.

Answer: <https://biology-forums.com/index.php?topic=256856>

Question 1886

Famine may strike anywhere in the world. However today, famine is a regular event in the dryland Sahel region of in

- A) Australia.
- B) Central America.
- C) Africa.
- D) southeast Asia.

Answer: <https://biology-forums.com/index.php?topic=259027>

Question 1887

Sometimes people say that plants make energy from the sun. However, plants make sugars using sunlight. Stating that plants make energy is actually

- A) a violation of the law of the conservation of momentum.
- B) a violation of the first law of thermodynamics.
- C) a violation of the law of inertia.
- D) a violation of the second law of thermodynamics.

Answer: <https://biology-forums.com/index.php?topic=258191>

Question 1888

About 30,000 years ago, humans survived most like which of the following organisms?

- A) roaming groups of omnivorous chimps
- B) herds of herbivorous bison and elk
- C) flocks of herbivorous geese migrating broadly across continents
- D) isolated carnivorous cougars hunting for their own meals

Answer: <https://biology-forums.com/index.php?topic=258613>

Question 1889

About how much of the sun's radiation would strike the Earth if the Earth did not have its atmosphere?

- A) about 10 times more
- B) about twice as much
- C) it would be about the same
- D) about half as much

Answer: <https://biology-forums.com/index.php?topic=259314>

Question 1890

Radiation exposure immediately around a properly functioning nuclear power plant is about

- A) 1% greater than the normal environmental background exposure.
- B) double normal environmental background exposure.
- C) 10 times higher than normal environmental background exposure.
- D) 100 times higher than normal environmental background exposure.

Answer: <https://biology-forums.com/index.php?topic=259261>

Question 1891

The Basel Convention, the exposure of the Navajo Nation to radioactive elements in mining operations and the plight of residents of Emelle, Alabama,

are aspects of

- A) funding for the cleanup of toxic spills and contamination.
- B) ecosystem protection.
- C) environmental justice.
- D) recycling of hazardous wastes.

Answer: <https://biology-forums.com/index.php?topic=257363>

Question 1892

Irrigation can result in the salinization of soils because

- A) shortages of freshwater require the use of saltwater for irrigation.
- B) salts are deposited on the soil surface as water evaporates.
- C) the irrigation water washes away soil leaving behind concentrated salts.
- D) many of the plants grown in these regions excrete salts into the soil.

Answer: <https://biology-forums.com/index.php?topic=258943>

Question 1893

Gutters and storm sewers in a city are most concerned with the

- A) evapotranspiration loop.
- B) surface runoff loop.
- C) precipitation loop.
- D) groundwater loop.

Answer: <https://biology-forums.com/index.php?topic=258808>

Question 1894

Which revolution may have the greatest impact on the future quality of life for people on Earth?

- A) Industrial Revolution
- B) Medical Revolution
- C) Green Revolution
- D) Environmental Revolution

Answer: <https://biology-forums.com/index.php?topic=258629>

Question 1895

Excellent microscopes and telescopes are most commonly used to

- A) extend our senses.
- B) help control experimental environments.
- C) quickly measure great quantities.
- D) manipulate large quantities of materials.

Answer: <https://biology-forums.com/index.php?topic=258029>

Question 1896

A hydrogen-oxygen fuel cell uses

- A) hydrogen and water and generates electricity and oxygen.
- B) hydrogen and oxygen and generates electricity and water.
- C) carbon dioxide and water and generates electricity and hydrogen.
- D) hydrogen and water and generates electricity, oxygen, and carbon dioxide.

Answer: <https://biology-forums.com/index.php?topic=259381>

Question 1897

In Japan today, the greatest risk associated with the use of nuclear power is

- A) an earthquake and/or tsunami.
- B) a terrorist attack.
- C) the lack of sufficient nuclear fuel.
- D) the generation of mutations in nearby plants and animals.

Answer: <https://biology-forums.com/index.php?topic=259289>

Question 1898

Atmospheric nitrogen is converted to nitrogen oxides

- A) when fuels are burned at high combustion temperatures.
- B) if the sun is shining brightly and there is a temperature inversion.
- C) on cloudy days when carbon and soot levels are unusually high.

D) if radon gas is present when gasoline is burned in automobiles.

Answer: <https://biology-forums.com/index.php?topic=256778>

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