

Question 1

To test whether a character is a printable character, use this function.

- A) isprintable
- B) isprintok
- C) isprint
- D) isoktoprint
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741905>

Question 2

True/False: It is legal to subtract a pointer variable from another pointer variable.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741897>

Question 3

When the increment operator precedes its operand, as in ++num1, the expression is in this mode.

- A) binary
- B) preliminary
- C) prefix
- D) postfix
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741678>

Question 4

What is the value of the following expression?

true || true

- A) true
- B) false
- C) -1
- D) +1

Answer: <https://biology-forums.com/index.php?topic=741649>

Question 5

When the compiler binds a member function call with the version of the function that resides in the same class as the call itself, this is considered _____ binding.

- A) safe
- B) dynamic
- C) local
- D) static
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742134>

Question 6

By default, Microsoft Access creates 1:1 relationships between tables.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740608>

Question 7

True/False: The Standard Template Library (STL) provides a linked list container.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742244>

Question 8

Information can be defined as:

- A) data presented in a meaningful context.
- B) knowledge derived from data.

C) data processed by summing, ordering, averaging, grouping, comparing or other similar operations.
D) A and B
E) A, B and C

Answer: <https://biology-forums.com/index.php?topic=741161>

Question 9

Explain the ambiguity in the broad definition of a weak entity.

Answer: <https://biology-forums.com/index.php?topic=740577>

Question 10

An important reason for using SQL Server 2014 Express is that it has _____.

Answer: <https://biology-forums.com/index.php?topic=740943>

Question 11

This member function can be used to store binary data to a file.

- A) binary.out
- B) put <<
- C) write
- D) dataout(binary)
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742012>

Question 12

Which of the following is not a means of processing databases?

- A) Internet applications using ASP
- B) Internet applications using JSP
- C) Applications invoking stored procedures
- D) Programs coded in C#
- E) All of the above are means of processing a database.

Answer: <https://biology-forums.com/index.php?topic=740689>

Question 13

True/False: The strlen function returns a C-string's length and adds one for \0.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741940>

Question 14

How many times will the following loop display "Hello"?

```
for (int i = 0; i <= 20; i++)  
    cout << "Hello!" << endl;
```

- A) 20
- B) 19
- C) 21
- D) An infinite number of times

Answer: <https://biology-forums.com/index.php?topic=741710>

Question 15

When running the NetBeans IDE for the first time, use a file workspace named NetBeansProjects.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741256>

Question 16

The first step in representing entities using the relational model is to determine which identifier will be used as the key.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740582>

Question 17

Which statement allows you to properly check the char variable code to determine whether it is equal to a "C" and then output "This is a check" and

then advance to a new line?

- A) if (code = "C")
cout << "This is a check" << endl;
- B) if (code == 'C')
cout << "This is a check\n";
- C) if code is equal to C
cout << "This is a check\n";
- D) if (code == C)
cout << "This is a check" << endl;

Answer: <https://biology-forums.com/index.php?topic=741641>

Question 18

_____ reads a line of input, including leading and embedded spaces, and stores it in a string object.

- A) getline
- B) cin.get
- C) get
- D) cin.getline
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741568>

Question 19

A(n) _____ is a value or an object that signals an error.

- A) throw
- B) exception
- C) destructor
- D) template
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742181>

Question 20

This is a double-ended queue.

- A) deque
- B) two-headed stack
- C) circular array
- D) two-tailed vector
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742254>

Question 21

Look at the following statement.

```
if (!isdigit(var1))
```

The expression being tested by this statement will evaluate to true if var1 is:

- A) a symbol such as \$ or &
- B) 9
- C) an alphabetic character
- D) both A and C
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741916>

Question 22

Any table that meets the definition of a relation is said to be in second normal form.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740341>

Question 23

The NextVal method provides the next value in a sequence.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740969>

Question 24

True/False: A static variable that is defined within a function is initialized only once, the first time the function is called.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741772>

Question 25

Explain why it is important to learn SQL.

Answer: <https://biology-forums.com/index.php?topic=740495>

Question 26

True/False: string objects have a member function named `c_str` that returns the contents of the object formatted as a null-terminated C-string.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741727>

Question 27

When a transaction functions in such a way that either all of the transaction actions are completed or none of them will be, the transaction is said to be:

- A) consistent.
- B) isolated.
- C) atomic.
- D) locked.
- E) logical.

Answer: <https://biology-forums.com/index.php?topic=740691>

Question 28

Graph databases are composed of three elements, one of which is the attribute.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741411>

Question 29

A surrogate key is appropriate when the primary key of a table contains a lengthy text field.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740591>

Question 30

When writing functions that accept multi-dimensional arrays as arguments, _____ must be explicitly stated in the parameter list.

- A) all but the first dimension
- B) all element values
- C) all dimensions
- D) the size declarator of the first dimension
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741793>

Question 31

In programming terms, a group of characters inside a set of quotation marks is called a(n):

- A) Operation
- B) String literal
- C) Variable
- D) Statement
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741522>

Question 32

The simplest and most feasible means of recovering a database is through reprocessing.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740679>

Question 33

Data warehouse data is often stored in a(n) _____.

Answer: <https://biology-forums.com/index.php?topic=740888>

Question 34

Data models are created during the _____ step of the SDLC.

- A) system definition
- B) requirements analysis
- C) component design
- D) implementation
- E) systems maintenance

Answer: <https://biology-forums.com/index.php?topic=741168>

Question 35

What is a data warehouse?

Answer: <https://biology-forums.com/index.php?topic=741375>

Question 36

Describe how to use Microsoft Access and IIS in Web database processing applications.

Answer: <https://biology-forums.com/index.php?topic=740820>

Question 37

Michael Porter includes inbound logistics in his list of _____ activities.

Answer: <https://biology-forums.com/index.php?topic=741176>

Question 38

The process of object-oriented analysis can be viewed as the following steps:

- A) Write the main() function, then determine which classes are needed
- B) Identify objects, then define objects' attributes, behaviors, and relationships
- C) Define data members and member functions, then assign a class name
- D) Declare private and public variables, prototype functions, then write code
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742064>

Question 39

When using Microsoft Visio 2013, how do we create a blank diagram for use with a data model?

Answer: <https://biology-forums.com/index.php?topic=741221>

Question 40

Which statement is equivalent to the following?

$x = x * 2;$

- A) $x = x * x;$
- B) $x *= 2;$
- C) $x * 2;$
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=741595>

Question 41

A function _____ return a structure.

- A) may
- B) will always
- C) may not
- D) cannot possibly
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741965>

Question 42

True/False: If there are no nodes in a linked list, you cannot append a node to the list.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742233>

Question 43

From a pragmatic standpoint, the only important rule of normalization is that the determinant of every functional dependency must be a candidate key. True or False?

Answer: <https://biology-forums.com/index.php?topic=740586>

Question 44

The Oracle Database ODBC Client is installed _____ when Oracle Database Express Edition 11g Release 2 is installed.

Answer: <https://biology-forums.com/index.php?topic=740996>

Question 45

The inorder, preorder, and postorder traversals can be accomplished using _____.

- A) no pointers
- B) recursion
- C) no arguments
- D) no parameters
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742339>

Question 46

A virtual function is a member function that expects to be _____ in a derived class.

- A) private
- B) overridden
- C) called frequently
- D) ignored
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742149>

Question 47

Candidate keys may or may not be unique.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740329>

Question 48

True/False: When you delete a node from a list, you must ensure that the links in the list are not permanently broken.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742242>

Question 49

The use of surrogate keys usually complicates application programming since most DBMS products require the application program to generate surrogate key values.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740335>

Question 50

Microsoft Access 2013 switchboards are built in a(n):

- A) form window.
- B) report window.
- C) application window.
- D) database design window.
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741233>

Question 51

Which of the following is a common input device?

- A) Keyboard
- B) Microphone
- C) Mouse

- D) Scanner
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741493>

Question 52

A static queue can be implemented as a _____.

- A) dynamic linked list
- B) stack
- C) circular array
- D) dynamic vector
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742253>

Question 53

Microsoft Access 2013 is a personal database that combines a DBMS with an application generator.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740268>

Question 54

When an SQL SELECT statement is used to retrieve data from a view instance, the maximum number of columns that can be specified in the SELECT is the same as the number of columns in the table underlying the view.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741082>

Question 55

This function accepts pointers to two C-strings and an integer argument, which indicates how many characters to copy from the second C-string to the first.

- A) strintcpy
- B) copystring
- C) strncpy
- D) strcpy
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741927>

Question 56

True/False: A subtree is an entire branch of a tree, from one particular node down.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742343>

Question 57

In the general division of labor between database applications and the DBMS, the application program determines which tables need to be modified.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740264>

Question 58

Which of the following assigns a value to the hourlyWage member of employee[2]?

- A) employee[2].hourlyWage = 100.00;
- B) hourlyWage[2].employee = 29.75
- C) employee[2]->hourlyWage = 50.00;
- D) employee2.hourlyWage = 7.50;
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741958>

Question 59

What will the following code output?

```
int number = 22;  
int *var = &number;  
cout << var << endl;
```

- A) An asterisk followed by the address of the number variable
- B) 22
- C) The address of the number variable
- D) An asterisk followed by 22

Answer: <https://biology-forums.com/index.php?topic=741890>

Question 60

Oracle Database XE 11.2 uses Application Express to create new workspaces.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740963>

Question 61

When Microsoft Access 2013 creates a signed package with a digital signature, the database file will be a(n):

- A) *.accdb file.
- B) *.accdc file.
- C) *.accde file.
- D) *.mdb file.
- E) *.mdw file.

Answer: <https://biology-forums.com/index.php?topic=740711>

Question 62

True/False: An anonymous union declaration actually creates the member variables in memory.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741993>

Question 63

All actions in an atomic transaction are completed successfully or none of the actions are completed at all.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740666>

Question 64

SQL statements can be run individually or as part of a related group of SQL statements known as a script.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740928>

Question 65

Which line in the following program will cause a compiler error?

```
1 #include <iostream>
2 using namespace std;
3
4 int main()
5 {
6     const int MY_VAL = 77;
7     MY_VAL = 99;
8     cout << MY_VAL << endl;
9     return 0;
10 }
```

- A) 9
- B) 6
- C) 7
- D) 8

Answer: <https://biology-forums.com/index.php?topic=741598>

Question 66

True/False: In C++, if you overload the < operator, you must also overload the > operator.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742124>

Question 67

Something within a while loop must eventually cause the condition to become false, or a(n) _____ results.

- A) infinite loop
- B) compiler error
- C) null value
- D) unexpected exit
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741682>

Question 68

XML Schemas consist of _____.

- A) elements
- B) attributes
- C) properties
- D) A and B
- E) A, B, and C

Answer: <https://biology-forums.com/index.php?topic=741434>

Question 69

ODBC only works with Microsoft products.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740750>

Question 70

Which of the following is a function performed by the driver manager in ODBC?

- A) Submit SQL statements to the data source.
- B) Determine the type of DBMS that processes a given ODBC data source.
- C) Load the appropriate ODBC driver into memory.
- D) Convert data source error codes into ODBC error codes.
- E) Both B and C

Answer: <https://biology-forums.com/index.php?topic=740778>

Question 71

What will be the value of result after the following code has been executed?

```
int a = 60;
int b = 15;
int result = 10;
if (a = b)
    result *= 2;
```

- A) 20
- B) 10
- C) 120
- D) This code will not compile.

Answer: <https://biology-forums.com/index.php?topic=741655>

Question 72

To insert a new node in ascending order into a list, the list must be:

- A) empty
- B) randomly ordered
- C) arranged in ascending order
- D) arranged in descending order

Answer: <https://biology-forums.com/index.php?topic=742230>

Question 73

During which stage does the central processing unit retrieve from main memory the next instruction in the sequence of program instructions?

- A) fetch
- B) decode
- C) portability stage
- D) execute

Answer: <https://biology-forums.com/index.php?topic=741467>

Question 74

By default, the E-R diagrams created in the MySQL Workbench use:

- A) IE Crow's Foot notation.
- B) IDEF1X notation.
- C) UML notation.
- D) Microsoft Visio 2010 Arrow notation.
- E) None of the above is correct.

Answer: <https://biology-forums.com/index.php?topic=741040>

Question 75

Explain the pragmatic reason for using surrogate keys.

Answer: <https://biology-forums.com/index.php?topic=740654>

Question 76

_____ functions may have the same name, as long as their parameter lists are different.

- A) Only two
- B) Zero
- C) Un-prototyped
- D) Two or more
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741739>

Question 77

True/False: When a recursive function directly calls itself, this is known as direct recursion.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742308>

Question 78

Which of the following is true about a key?

- A) It may be unique.
- B) It may be non-unique.
- C) It may identify more than one row.
- D) Both A and B
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=740356>

Question 79

Which of the following is a preprocessor directive?

- A) #include <iostream>
- B) pay = hours * rate;
- C) int main()
- D) cin >> rate;
- E) // This program calculates the user's pay.

Answer: <https://biology-forums.com/index.php?topic=741488>

Question 80

True/False: A derived class may not have any classes derived from it.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742165>

Question 81

SQL triggers are used for providing default values, validity checking, updating views, and performing referential integrity actions.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741097>

Question 82

Given that, $x = 2$, $y = 1$, and $z = 0$, what will the following cout statement display?

```
cout << "answer = " << (x || !y && z) << endl;
```

- A) answer = 1
- B) answer = 2
- C) answer = 0
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=741643>

Question 83

PHP was most recently ranked as the 5th most popular programming language.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741257>

Question 84

To place a table in a MySQL database design, start by clicking the:

- A) Table button.
- B) Entity button.
- C) Place a New Table button.
- D) Place a New Entity button.
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741044>

Question 85

What is a star schema?

Answer: <https://biology-forums.com/index.php?topic=741376>

Question 86

Which symbol is used in standard SQL as a wildcard to represent a series of one or more unspecified characters?

- A) % (percent sign)
- B) ! (exclamation mark)
- C) _ (underscore)
- D) ? (question mark)
- E) ; (semi-colon)

Answer: <https://biology-forums.com/index.php?topic=740458>

Question 87

A relational database stores data in the form of lists.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740248>

Question 88

True/False: File output may be formatted the same way as console screen output.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742031>

Question 89

Which method returns the next value in a sequence?

- A) CountVal
- B) Next
- C) UpVal
- D) NextVal
- E) Append

Answer: <https://biology-forums.com/index.php?topic=740985>

Question 90

In the MapReduce process, the Reduce step is followed by the Map step.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740845>

Question 91

As far as Microsoft Access is concerned, there are no:

- A) 1:1 relationships.
- B) 1:N relationships.
- C) N:1 relationships.
- D) N:M relationships.
- E) recursive relationships.

Answer: <https://biology-forums.com/index.php?topic=740637>

Question 92

True/False: C++ does not perform array bounds checking, making it possible for you to assign a pointer the address of an element out of the boundaries of an array.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741898>

Question 93

Microsoft Access SQL commands are run in:

- A) the SQL window.
- B) the QBE window.
- C) the Query View of an SQL window.
- D) the Design View of a Query window.
- E) the SQL View of a Query window.

Answer: <https://biology-forums.com/index.php?topic=740470>

Question 94

Microsoft Access 2013 databases cannot be secured by password encryption.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740685>

Question 95

True/False: An individual array element can be processed like any other type of C++ variable.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741832>

Question 96

The statement:

```
char var1 = tolower('A');
```

will result in:

- A) A is output to the monitor.
- B) a is output to the monitor.
- C) var1 storing the ASCII value for lower case 'a'.
- D) var1 storing the character value 'A'.
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741933>

Question 97

A rule that requires every value in a foreign key to match values in the corresponding primary key is called a(n) _____ constraint.

Answer: <https://biology-forums.com/index.php?topic=740387>

Question 98

Referential integrity constraints using the ON DELETE NO ACTION phrase may be explicitly stated when the table is created using the CREATE TABLE statement.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740417>

Question 99

In SQL, the IS NULL keyword can be used to select on records containing NULL values in a particular column.
True or False?

Answer: <https://biology-forums.com/index.php?topic=740427>

Question 100

Three primary activities of a program are:

- A) Input, Processing, and Output
- B) Integer, Floating-point and Character
- C) Variables, Operators, and Key Words
- D) Lines, Statements, and Punctuation
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741480>

Question 101

How is minimum cardinality expressed in crow's foot E-R diagrams?

Answer: <https://biology-forums.com/index.php?topic=740579>

Question 102

NoSQL really stands for "Not only SQL."

True or False?

Answer: <https://biology-forums.com/index.php?topic=740842>

Question 103

Use the database below to answer the following question.

GENERAL SALES DATABASE:

SALESREP

SalesRepNo RepName HireDate

654 Jones 01/02/1999

734 Smith 02/03/2000

345 Chen 01/25/1998

434 Johnson 11/23/1998

CUSTOMER

CustNo CustName Balance SalesRepNo

9870 Winston 500 345

8590 Gonzales 350 434

7840 Harris 800 654

4870 Miles 100 345

Write the SQL statement to create a view named CustomerSalesRepView that displays the customer name as CustomerName and the associated sales rep name SaleRepresentativeName from the GENERAL SALES DATABASE.

Answer: <https://biology-forums.com/index.php?topic=741139>

Question 104

Additional DBA responsibilities include:

- A) problem and error reporting.
- B) requests of changes to existing systems.
- C) controlling database configuration.
- D) maintaining appropriate documentation.
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=740706>

Question 105

The four categories of NoSQL databases used in the text are the _____ database, the _____ database, the _____ database, and the _____ database.

Answer: <https://biology-forums.com/index.php?topic=741442>

Question 106

SQL statements used to construct views cannot contain:

- A) the SELECT clause.
- B) the FROM clause.
- C) the WHERE clause.
- D) the ORDER BY clause.
- E) the LIKE keyword.

Answer: <https://biology-forums.com/index.php?topic=741107>

Question 107

Which SQL keyword is used to eliminate duplicate rows in the results of an SQL SELECT query?

- A) UNIQUE
- B) SORT
- C) ORDER BY
- D) DISTINCT
- E) REDUCE

Answer: <https://biology-forums.com/index.php?topic=740453>

Question 108

Which of the following is an SQL trigger that Oracle supports?

- A) BEFORE
- B) INSTEAD OF
- C) AFTER
- D) B and C only
- E) A, B, and C

Answer: <https://biology-forums.com/index.php?topic=741117>

Question 109

True/False: A linked list can grow and shrink as a program runs.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742239>

Question 110

Problematic data include so-called "dirty data."

True or False?

Answer: <https://biology-forums.com/index.php?topic=740830>

Question 111

Although it cannot be used in creating an SQL VIEW, the SQL SELECT statements retrieving view instances can include:

- A) SQL keyword ORDER BY.
- B) SQL keyword LIKE.
- C) SQL keyword BETWEEN.
- D) SQL keyword NULL.
- E) SQL keyword NOT NULL.

Answer: <https://biology-forums.com/index.php?topic=741109>

Question 112

Report systems include three functions: authoring, management and delivery.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741303>

Question 113

In the MySQL Table Editor, the abbreviation for NOT NULL is:

- A) PK
- B) NN
- C) UQ
- D) BIN
- E) AI

Answer: <https://biology-forums.com/index.php?topic=741045>

Question 114

Which of the following is a valid C++ array definition?

- A) float \$payments[10];
- B) int scores [10];
- C) int readings[4.5];
- D) int scores[0];
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741791>

Question 115

What are the basic steps of the normalization process?

Answer: <https://biology-forums.com/index.php?topic=740408>

Question 116

This is a variable that is regularly incremented or decremented each time a loop iterates.

- A) counter
- B) null terminator
- C) constant
- D) control statement
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741683>

Question 117

In the normalization process, if you find a candidate key that is not a primary key, then you have determined that the relation needs to be broken into two or more other relations.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740345>

Question 118

What are the common differences between a Web database processing system running on the Windows operating system and one running on a Linux operating system?

Answer: <https://biology-forums.com/index.php?topic=740812>

Question 119

Microsoft Access does not create N:M relationships because:

- A) Microsoft Access creates databases based on database designs instead of data models.
- B) Microsoft Access creates databases based on data models instead of database designs.
- C) Microsoft Access cannot implement association relationships.
- D) Microsoft Access cannot implement supertype/subtype relationships.
- E) Microsoft Access cannot implement recursive relationships.

Answer: <https://biology-forums.com/index.php?topic=740636>

Question 120

True/False: A union can only have one member.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741994>

Question 121

The CAP theorem defines the three properties, one of which is partition tolerance.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741384>

Question 122

Appending a node means adding it to the end of a list, and _____ a node means putting a new node in the list, but not necessarily at the end.

- A) inserting
- B) concatenating
- C) clamping

- D) popping
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742216>

Question 123

When you dereference a pointer to a pointer, the result is:

- A) a null pointer
- B) not possible to determine
- C) another pointer
- D) a value of the data type pointed to
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742327>

Question 124

Define and briefly describe the function of ODBC.

Answer: <https://biology-forums.com/index.php?topic=740814>

Question 125

What is the least restrictive isolation level that will prevent phantom read problems?

- A) Read Committed
- B) Serializable
- C) Read Uncommitted
- D) Atomic Read
- E) Repeatable Read

Answer: <https://biology-forums.com/index.php?topic=740700>

Question 126

True/False: A real-world example of the queue data structure can be seen in a stack of cafeteria trays, where the last tray pushed onto the stack is the first tray removed.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742285>

Question 127

System requirements as documented by use cases, business rules, forms, reports, and queries are sufficient to design the database without using a formal data model.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740511>

Question 128

When using SQL to create a table, specifying the NULL property for a column indicates that only null values may be stored in that column.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740412>

Question 129

True/False: A test using the isupper function will return false if the argument is an uppercase character.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741934>

Question 130

The while loop has two important parts: an expression that is tested for a true or false value, and:

- A) a statement or block that is repeated as long as the expression is true
- B) a statement or block that is repeated once, if the expression is true
- C) a statement or block that is repeated only if the expression is false
- D) one line of code that is repeated once, if the expression is true

Answer: <https://biology-forums.com/index.php?topic=741667>

Question 131

You can use these to override the rules of operator precedence in a mathematical expression.

- A) The escape character \
- B) [Brackets]
- C) (Parentheses)
- D) {Braces}
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741574>

Question 132

True/False: Multiple relational expressions cannot be placed into the test condition of a for loop.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741721>

Question 133

Which of the following activities is not performed during the implementation phase of developing a database system?

- A) Filling the database with data
- B) Transforming the data model into a database design
- C) Writing application programs
- D) Creating forms
- E) Creating reports

Answer: <https://biology-forums.com/index.php?topic=740533>

Question 134

When you overload an operator, you cannot change the number of _____ taken by the operator.

- A) operations
- B) parameters
- C) operands
- D) arguments
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742108>

Question 135

True/False: Global variables are initialized to zero by default.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741777>

Question 136

Report delivery is more difficult for data mining than it is for reporting systems.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740829>

Question 137

When converting some algebraic expressions to C++, you may need to insert _____ that do not appear in the algebraic expression.

- A) Parentheses
- B) Coercions
- C) Calculations
- D) Exponents
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741585>

Question 138

The purpose of a database is to help people _____.

Answer: <https://biology-forums.com/index.php?topic=740296>

Question 139

When using Microsoft Access and IIS, a basic Web home page name that we should use even if we need to change IIS settings is:

- A) AWebPage.htm.

- B) index.html.
- C) MyWebPage.htm.
- D) MyWeb.htm.
- E) MyPage.htm.

Answer: <https://biology-forums.com/index.php?topic=740793>

Question 140

In the MySQL Table Editor, the abbreviation AI stands for AUTO_INCREMENT.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741026>

Question 141

True/False: As a rule of style, when writing an if statement you should indent the conditionally-executed statements.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741663>

Question 142

Whereas < is called a relational operator, $x < y$ is called a(n) _____.

- A) Arithmetic operator
- B) Largeness test
- C) Relative operator
- D) Relational expression
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741629>

Question 143

When working with Microsoft Access on a Windows operating system, a simple but usable ASCII text editor is:

- A) Microsoft Word.
- B) Notepad.
- C) Wordpad.
- D) Microsoft Frontpage.
- E) Microsoft Visual Studio .NET.

Answer: <https://biology-forums.com/index.php?topic=740789>

Question 144

Explain the concept of an "atomic transaction."

Answer: <https://biology-forums.com/index.php?topic=740729>

Question 145

The beginning of a function template is marked by a _____.

- A) semicolon
- B) return type
- C) parameter list
- D) template prefix
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742174>

Question 146

True/False: In C++ 11, the range-based for loop is best used in situations where you need the element subscript for some purpose.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741834>

Question 147

What is a stored procedure?

Answer: <https://biology-forums.com/index.php?topic=740810>

Question 148

A candidate key is:

- A) required to be unique.
- B) used to represent rows in relationships.
- C) a candidate to be the primary key.
- D) Both A and B
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=740359>

Question 149

Microsoft Visio 2013 can be used to create:

- A) data models.
- B) data designs.
- C) database models.
- D) database designs.
- E) A and D

Answer: <https://biology-forums.com/index.php?topic=741207>

Question 150

In Microsoft Access, a relationship between two tables is created:

- A) by entering the name of the foreign key in the appropriate table in Design View.
- B) by entering the name of the primary key in the appropriate table in Design View.
- C) by dragging the primary key column of one table onto the foreign key column of the other table in the Relationships window.
- D) by dragging the foreign key column of one table onto the primary key column of the other table in the Relationships window.
- E) by dragging the primary key column of one table onto the primary key column of the other table in the Relationships window.

Answer: <https://biology-forums.com/index.php?topic=740380>

Question 151

When using Microsoft Access and IIS, the basic Web home page can be named index.html.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740764>

Question 152

In OOP terminology, an object's member variables are often called its _____, and its member functions are sometimes referred to as its behaviors, or _____.

- A) attributes, activities
- B) attributes, methods
- C) values, morals
- D) data, activities
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742041>

Question 153

SOAP has become _____.

- A) just a name, not an acronym
- B) a standard protocol for sending any type of message
- C) an old technology replaced by XML
- D) A and B
- E) A, B, and C

Answer: <https://biology-forums.com/index.php?topic=741420>

Question 154

In Microsoft Access, default values must be set as a field property while the table is in Design View.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740444>

Question 155

Every cell in a relation can hold only a single value.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740325>

Question 156

Which one of the following would be an illegal variable name?

- A) June1997
- B) dayOfWeek
- C) itemsorderedforthemonth
- D) 3dGraph
- E) _employee_num

Answer: <https://biology-forums.com/index.php?topic=741537>

Question 157

We have done an RFM analysis on our customer data. John Smith has a score of "5 1 1." This means that John:

- A) has ordered recently, and orders a lot when he orders.
- B) hasn't ordered recently, but orders a lot when he orders.
- C) has ordered recently, but doesn't order a lot when he orders.
- D) hasn't ordered recently, and doesn't order a lot when he orders.
- E) None of the above is correct.

Answer: <https://biology-forums.com/index.php?topic=741336>

Question 158

True/False: The height of a tree describes how many levels there are in the tree.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742345>

Question 159

In SQL Developer, DBMS objects are displayed:

- A) in the Navigation Pane.
- B) in the Object Browser.
- C) in the Connections area.
- D) in the tabbed document window.
- E) in the command tab.

Answer: <https://biology-forums.com/index.php?topic=740980>

Question 160

This means to increase a value by one.

- A) decrement
- B) parse
- C) increment
- D) modulus
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741677>

Question 161

With ODBC, the driver manager serves as an intermediary between the application and the DBMS drivers.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740751>

Question 162

We have obtained access to the company's operational data. In one record, we find that a customer's age has been recorded as "337." This is an example of:

- A) dirty data.
- B) inconsistent data.
- C) non-integrated data.
- D) a "wrong format" problem.
- E) a "too much data" problem.

Answer: <https://biology-forums.com/index.php?topic=741326>

Question 163

Given the following code segment, what is output after "result = "?

```
int x = 1, y = 1, z = 1;
y = y + z;
x = x + y;
cout << "result = "
    << (x < y ? y : x)
    << endl;
```

- A) 2
- B) 0
- C) 1
- D) 3
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741640>

Question 164

Given the tables

PRODUCT (ProductID, Description, Cost)

SUPPLIER (SupplierID, ContactName, PhoneNumber)

as shown in the figure below, which of the following would represent the correct placement of foreign keys?

- A) PRODUCT (ProductID, Description, Cost)
SUPPLIER (SupplierID, ContactName, PhoneNumber)
- B) PRODUCT (ProductID, Description, Cost, SupplierID)
SUPPLIER (SupplierID, ContactName, PhoneNumber, ProductID)
- C) PRODUCT (ProductID, Description, Cost)
SUPPLIER (SupplierID, ContactName, PhoneNumber)
- D) PRODUCT (ProductID, Description, Cost, SupplierID)
SUPPLIER (SupplierID, ContactName, PhoneNumber)
- E) PRODUCT (ProductID, Description, Cost)
SUPPLIER (SupplierID, ContactName, PhoneNumber)
PRODUCT_SUPPLIER (ProductID, SupplierID)

Answer: <https://biology-forums.com/index.php?topic=740625>

Question 165

True/False: An initialization expression may be omitted from the for loop if no initialization is required.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741715>

Question 166

The "R" in RFM analysis stands for:

- A) rank.
- B) recent.
- C) relationship.
- D) readiness.
- E) random.

Answer: <https://biology-forums.com/index.php?topic=741334>

Question 167

Which of the following is a common supervised data mining technique?

- A) Cluster analysis
- B) Regression analysis
- C) RFM analysis
- D) Both A and B
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741345>

Question 168

The number of entity classes involved in a relationship is the cardinality of the relationship.
True or False?

Answer: <https://biology-forums.com/index.php?topic=740518>

Question 169

What is an SQL script, and why are SQL scripts useful?

Answer: <https://biology-forums.com/index.php?topic=740956>

Question 170

Using a linear search to find a value that is stored in the last element of an array of 20,000 elements, _____ element(s) must be compared.

- A) 20,000
- B) 2000
- C) only half
- D) only the first
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741845>

Question 171

The ideal primary key is short, numeric, and fixed.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740590>

Question 172

What will the following program display?

```
#include <iostream>
using namespace std;
int main()
{
    int a = 0, b = 2, x = 4, y = 0;
    cout << (a == b) << " ";
    cout << (a != b) << " ";
    cout << (b <=x) << " ";
    cout << (y > a) << endl;
    return 0;
}
```

- A) 1 1 0 1
- B) 0 0 1 0
- C) 0 1 1 0
- D) 1 0 0 1
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741637>

Question 173

When Oracle Database Express Edition 11g Release 2 is installed, the Oracle Database ODBC client is:

- A) installed automatically as part of the installation.
- B) installed manually as a separate part of the installation process.
- C) not installed and must be downloaded and installed manually.
- D) not installed because there is no ODBC client for Oracle Database 11g Release 2 Express Edition.
- E) Either A or B

Answer: <https://biology-forums.com/index.php?topic=740984>

Question 174

Unlike application code, stored procedures are never distributed to the client computers.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741100>

Question 175

The _____ in a binary tree is similar to the head pointer in a linked list.

- A) leaf pointer
- B) root pointer
- C) binary pointer
- D) null pointer
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742321>

Question 176

To access documentation about the MySQL Workbench, use the:

- A) Help | MySQL Workbench command.
- B) Help | Help Index command.
- C) Help | MySQL Website command.
- D) Help | MySQL.com Website command.
- E) Help | Documentation command.

Answer: <https://biology-forums.com/index.php?topic=741037>

Question 177

After getting data from a database, a PHP program needs to:

- A) open the connection.
- B) test the connection.
- C) query the database.
- D) process the query results.
- E) close the connection.

Answer: <https://biology-forums.com/index.php?topic=740785>

Question 178

A statement that starts with a # symbol is called a:

- A) Key word
- B) Preprocessor directive
- C) Comment
- D) Function
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741506>

Question 179

A stored procedure is a module of logic normally written in a traditional programming language like C++ and stored in the application program. True or False?

Answer: <https://biology-forums.com/index.php?topic=740741>

Question 180

In the following statement:

```
class car : protected vehicle
```

What is being protected?

- A) base class members
- B) future inherited classes
- C) derived class functions
- D) derived class data
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742153>

Question 181

Which SQL keyword is used to specify a condition that rows must meet to be included in the results of an SQL SELECT query?

- A) SELECT
- B) FROM
- C) WHERE
- D) ORDER BY
- E) GROUP BY

Answer: <https://biology-forums.com/index.php?topic=740454>

Question 182

SQL views can be used to hide columns.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741086>

Question 183

A declaration for an enumerated type begins with the _____ key word.

- A) ENUM
- B) enumerated
- C) enum
- D) enum_type

Answer: <https://biology-forums.com/index.php?topic=741974>

Question 184

An ID-dependent entity is:

- A) a special type of weak entity.
- B) an entity in which the identifier of the entity includes the identifier of another entity.
- C) a strong entity.
- D) an entity with a maximum cardinality of one.
- E) Both A and B

Answer: <https://biology-forums.com/index.php?topic=740546>

Question 185

What will the following code display?

```
cout << "Monday";  
cout << "Tuesday";  
cout << "Wednesday";
```

- A) "Monday"
"Tuesday"
"Wednesday"
- B) Monday
Tuesday
Wednesday
- C) Monday Tuesday Wednesday
- D) MondayTuesdayWednesday

Answer: <https://biology-forums.com/index.php?topic=741540>

Question 186

Which of the following correctly consolidates the following declaration statements into one statement?

- ```
int x = 7;
int y = 16;
int z = 28;
```
- A) int x = 7 y = 16 z = 28;
  - B) int x, y, z = 7, 16, 28
  - C) int x = 7; y = 16; z = 28;
  - D) int x = 7, y = 16, z = 28;
  - E) None of these will work.

Answer: <https://biology-forums.com/index.php?topic=741533>

### Question 187

When more than one class is derived from a base class, the situation is called:

- A) polymorphism
- B) encapsulation
- C) population
- D) multiplicity
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742137>

### Question 188

A stored program that is attached to the database is called \_\_\_\_\_.

- A) a CHECK constraint
- B) a view
- C) embedded SQL
- D) a trigger



E) a stored procedure

Answer: <https://biology-forums.com/index.php?topic=741121>

### Question 189

True/False: When you store data in a variable, it is automatically saved in a file.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742027>

### Question 190

ODBC stands for:

- A) Open Database Compatibility.
- B) Open Database Connectivity.
- C) Open-source Database Compatibility.
- D) Open-source Database Connectivity.
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=740773>

### Question 191

A data warehouse is a database system that has data and programs for, as well as personnel specialized in, BI processing.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740831>

### Question 192

In the normalization process, if you find a candidate key that is not a primary key then you should:

- A) place the columns of the functional dependency in a new relation.
- B) make the determinant of the functional dependency the primary key of the new relation.
- C) leave a copy of the determinant as a foreign key in the original relation.
- D) All of the above
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=740375>

### Question 193

When using Microsoft Access 2013, how do we create a switchboard?

Answer: <https://biology-forums.com/index.php?topic=741242>

### Question 194

Given the tables

TABLE\_A (Attribute1, Attribute2, Attribute3)

TABLE\_B (Attribute4, Attribute5, Attribute6)

as shown in the figure below, which of the following would display the correct placement of foreign keys in the relational model?

- A) TABLE\_A (Attribute1, Attribute2, Attribute3)  
TABLE\_B (Attribute4, Attribute5, Attribute6, Attribute1)
- B) TABLE\_A (Attribute1, Attribute2, Attribute3, Attribute4, Attribute5)  
TABLE\_B (Attribute4, Attribute5, Attribute6)
- C) TABLE\_A (Attribute1, Attribute2, Attribute3, Attribute4)  
TABLE\_B (Attribute4, Attribute5, Attribute6, Attribute1)
- D) TABLE\_A (Attribute1, Attribute2, Attribute3)  
TABLE\_B (Attribute4, Attribute5, Attribute6)
- E) TABLE\_A (Attribute1, Attribute2, Attribute3, Attribute6)  
TABLE\_B (Attribute4, Attribute5, Attribute6)

Answer: <https://biology-forums.com/index.php?topic=740621>

### Question 195

A(n) \_\_\_\_\_ is a class that stores data and organizes it in some fashion.

- A) box
- B) container
- C) template
- D) iterator
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742192>

### Question 196

Use the database below to answer the following question.

GENERAL SALES DATABASE:

SALESREP

SalesRepNo RepName HireDate

654 Jones 01/02/1999

734 Smith 02/03/2000

345 Chen 01/25/1998

434 Johnson 11/23/1998

CUSTOMER

CustNo CustName Balance SalesRepNo

9870 Winston 500 345

8590 Gonzales 350 434

7840 Harris 800 654

4870 Miles 100 345

What is an SQL view, and what is it used for? Include an example based on the CUSTOMER table of the General Sales Database.

Answer: <https://biology-forums.com/index.php?topic=741138>

### Question 197

True/False: An array initialization list must be placed on one single line.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741827>

### Question 198

BI Reporting systems are intended to create meaningful information from disparate data sources and to deliver that information to the proper users on a timely basis.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741290>

### Question 199

How many times will the following loop display "Hello"?

```
for (int i = 20; i > 0; i--)
 cout << "Hello!" << endl;
```

- A) 20
- B) 19
- C) 21
- D) An infinite number of times

Answer: <https://biology-forums.com/index.php?topic=741711>

### Question 200

A practical application of the stack data type in a computer system is:

- A) storage of local variables
- B) tracking nested function calls
- C) tracking nested loops
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742272>

### Question 201

In Microsoft Visio 2013, the arrow end of the Relationship connector object points to the table containing the foreign key.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741204>

### Question 202

In an inheritance situation, the new class that you create from an existing class is known as the \_\_\_\_\_.

- A) child class
- B) inheritor

- C) derived class
- D) A and C
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742143>

### Question 203

True/False: Enqueue and dequeue are the two most common queue operations.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742284>

### Question 204

Which statement converts the string "10" to the integer value 10?

- A) itoa("ten")
- B) atoi("ten")
- C) itoa(10)
- D) atoi("10")
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741913>

### Question 205

With ODBC, a database and the DBMS that processes it are identified by the data source.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740753>

### Question 206

Microsoft Access 2013 can secure databases by using \_\_\_\_\_ to encrypt and decrypt the database files.

Answer: <https://biology-forums.com/index.php?topic=740724>

### Question 207

In Microsoft Visio 2013, for a Relationship object relationship that is one-optional on the child side of the relationship, the correct setting in the Symbol menu is:

- A) 1 and only 1.
- B) 1 or more.
- C) Zero or 1.
- D) Zero or more.
- E) Range [At least][At most].

Answer: <https://biology-forums.com/index.php?topic=741219>

### Question 208

The statements written by the programmer are called:

- A) Syntax
- B) Object code
- C) Runtime libraries
- D) Source code
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741473>

### Question 209

In SQL, the LIKE keyword can be used to select on partial values.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740425>

### Question 210

An advantage of keeping data in lists is that if you update a data value in one row of data in a list, other occurrences of the same data item in other rows will be automatically updated as well.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740245>

### Question 211

Microsoft Access 2013 switchboards use \_\_\_\_\_ to allow users to implement application actions.

Answer: <https://biology-forums.com/index.php?topic=741240>

### Question 212

True/False: If an uppercase character is passed as an argument to toupper, the result will be an uppercase character.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741944>

### Question 213

A pointer variable is designed to store \_\_\_\_\_.

- A) a memory address
- B) an integer
- C) any legal C++ value
- D) only floating-point values
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741875>

### Question 214

User interviews are conducted during the \_\_\_\_\_ step.

Answer: <https://biology-forums.com/index.php?topic=741182>

### Question 215

True/False: In C++, it is impossible to display the number 34.789 in a field of 9 spaces with 2 decimal places of precision.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741609>

### Question 216

What is the Oracle Database XE 11.2?

Answer: <https://biology-forums.com/index.php?topic=740997>

### Question 217

The recursive factorial function calculates the factorial of its parameter. Its base case is when the parameter is \_\_\_\_\_.

- A) returned
- B) received
- C) zero
- D) amortized
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742302>

### Question 218

Given the table

CUSTOMER(CustID, Name, PhoneNum, AcctBalance)

what is the standard SQL query phrase to retrieve the Name and Phone Number of customers?

- A) SELECT CUSTOMER-Name AND CUSTOMER-PhoneNum
- B) SELECT (CUSTOMER-Name AND CUSTOMER-PhoneNum)
- C) SELECT Name, PhoneNum
- D) SELECT (Name, PhoneNum)
- E) SELECT \*

Answer: <https://biology-forums.com/index.php?topic=740462>

### Question 219

For a workstation running the Windows operating system, all the necessary user file system permissions to the Web page area are already granted.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741251>

### Question 220

True/False: Before you can perform a bubble sort, the data must be stored in descending order.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741857>

### Question 221

Computer programs are also known as:

- A) silverware
- B) firmware
- C) software
- D) hardware
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741484>

### Question 222

True/False: The itoa function is similar to atoi, but it works in reverse.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741938>

### Question 223

Which of the following is true about a relation?

- A) The order of the columns in a relation must go from largest to smallest.
- B) All entries in any column must be of the same kind.
- C) A relation may have duplicate column names.
- D) A relation may have duplicate rows.
- E) A relation may have multiple names.

Answer: <https://biology-forums.com/index.php?topic=740353>

### Question 224

If Circle is a structure tag, the statement:

Circle doSomething(Circle c2)  
can be the header line for a function that \_\_\_\_\_.

- A) takes two Circle parameters and does something
- B) determines and returns the area of a circle
- C) takes a Circle structure as a parameter, does something, and returns a Circle structure
- D) operates on a constant reference to a Circle structure
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741957>

### Question 225

In Microsoft Visio 2013, when the Entity object is placed in a diagram, it is labeled as a table.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741197>

### Question 226

True/False: The term "bit" stands for binary digit.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741504>

### Question 227

When used as parameters, these types of variables allow a function to access the parameter's original argument.

- A) undeclared
- B) reference
- C) floating-point
- D) counter

E) None of these

Answer: <https://biology-forums.com/index.php?topic=741737>

### Question 228

The final step of using a PHP connection to a DBMS is to:

- A) open the connection.
- B) test the connection.
- C) query the database.
- D) process the query results.
- E) close the connection.

Answer: <https://biology-forums.com/index.php?topic=740786>

### Question 229

The Microsoft SQL Server 2014 Management Studio is included with Microsoft SQL Server 2014 Express Advanced.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740921>

### Question 230

An entity class is described by the structure of the entities in that class.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740514>

### Question 231

This function will return true if its argument is a printable character other than a digit, letter, or space.

- A) isprint
- B) ispunct
- C) isnotdls
- D) ischar
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741914>

### Question 232

Information systems are used to support business processes.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741152>

### Question 233

True/False: The scope of a variable declared in a for loop's initialization expression always extends beyond the body of the loop.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741716>

### Question 234

Microsoft Access \_\_\_\_\_ can use previously stored view equivalent Access queries the same way an SQL SELECT statement uses SQL views.

Answer: <https://biology-forums.com/index.php?topic=741137>

### Question 235

The term drill down refers to the capability of seeing the data in smaller and smaller units.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740841>

### Question 236

In the MySQL Workbench, a 1:N identifying relationship between two tables that do not contain the needed primary and foreign keys is created using:

- A) the 1:N Identifying Relationship button.
- B) the 1:N Non-identifying Relationship button.
- C) the N:M Identifying Relationship button.
- D) the Place a Relationship Using Existing Columns button.
- E) None of the above is correct.

Answer: <https://biology-forums.com/index.php?topic=741050>

### Question 237

The \_\_\_\_\_ operator always follows the cin object, and the \_\_\_\_\_ operator follows the cout object.

- A) <<, >>
- B) >>, <<
- C) conditional, binary
- D) binary, unary
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741566>

### Question 238

In the MySQL Table Editor, the abbreviation NN stands for NOT NULL.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741025>

### Question 239

Distinguish between a data model and a database design.

Answer: <https://biology-forums.com/index.php?topic=740571>

### Question 240

True/False: The following code correctly determines whether x contains a value in the range of 0 through 100.

```
if (x >= 0 && <= 100)
```

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741662>

### Question 241

XML Schemas consist of \_\_\_\_\_.

Answer: <https://biology-forums.com/index.php?topic=741446>

### Question 242

As far as Microsoft Access is concerned, there are no \_\_\_\_\_.

Answer: <https://biology-forums.com/index.php?topic=740649>

### Question 243

C++ allows you to redefine the way \_\_\_\_\_ work when used with class objects.

- A) compiler errors
- B) preprocessor directives
- C) undefined variables
- D) standard operators
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742091>

### Question 244

True/False: Push and pop are the two most common queue operations.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742290>

### Question 245

In Microsoft Visio 2013, how do we create database designs?

Answer: <https://biology-forums.com/index.php?topic=741224>

### Question 246

When the less than (<) operator is used between two pointer variables, the expression is testing whether \_\_\_\_\_.

- A) the address of the first variable comes before the address of the second variable in the computer's memory
- B) the value pointed to by the first is greater than the value pointed to by the second
- C) the first variable was declared before the second variable

D) the value pointed to by the first is less than the value pointed to by the second  
E) None of these  
Answer: <https://biology-forums.com/index.php?topic=741867>

### Question 247

A structure \_\_\_\_\_ contain members of the same data type.  
A) shouldn't  
B) can  
C) cannot  
D) None of these  
Answer: <https://biology-forums.com/index.php?topic=741969>

### Question 248

Explain sequences and their relationship to surrogate keys.  
Answer: <https://biology-forums.com/index.php?topic=741002>

### Question 249

What will the value of x be after the following statements execute?  
int x;  
  
x = 18 / 4;  
A) 0  
B) 4.5  
C) unknown  
D) 4  
Answer: <https://biology-forums.com/index.php?topic=741547>

### Question 250

Null values can cause problems because they are ambiguous.  
True or False?  
Answer: <https://biology-forums.com/index.php?topic=740336>

### Question 251

The technique for representing E-R relationships in the relational model is dependent on the minimum cardinality.  
True or False?  
Answer: <https://biology-forums.com/index.php?topic=740593>

### Question 252

You want the user to enter the length, width, and height from the keyboard. Which cin statement is correctly written?  
A) cin << length, width, height;  
B) cin << length; width; height;  
C) cin.get(length, width, height);  
D) cin >> length >> width >> height;  
E) cin >> length, width, height;  
Answer: <https://biology-forums.com/index.php?topic=741573>

### Question 253

A(n) \_\_\_\_\_ informs the compiler that a class will be declared later in the program.  
A) forward declaration  
B) object conversion  
C) static function  
D) private data member  
E) None of these  
Answer: <https://biology-forums.com/index.php?topic=742109>

### Question 254

This function in C++ allows you to identify how many bytes of storage on your computer system an integer data value requires.  
A) len  
B) sizeof



- C) f(x)
- D) int
- E) bytes

Answer: <https://biology-forums.com/index.php?topic=741528>

### Question 255

Describe how to create and run an SQL script in MySQL 5.6 Community Server Edition.

Answer: <https://biology-forums.com/index.php?topic=741068>

### Question 256

Generally, the more restrictive the transaction isolation level, the less the throughput of database processing.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740676>

### Question 257

Microsoft Access 2013 database files can be easily \_\_\_\_\_ to create multiple copies of a database.

Answer: <https://biology-forums.com/index.php?topic=740568>

### Question 258

Assume that myCar is an instance of the Car class, and that the Car class has a member function named accelerate. Which of the following is a valid call to the accelerate member function?

- A) myCar.accelerate();
- B) Car->accelerate();
- C) myCar:accelerate();
- D) myCar::accelerate();

Answer: <https://biology-forums.com/index.php?topic=742068>

### Question 259

A deliverable from the requirements analysis step is a(n):

- A) user requirements document (URD).
- B) user requirements statement (URS).
- C) statement of work (SOW).
- D) statement of requirements (SOR).
- E) A and C

Answer: <https://biology-forums.com/index.php?topic=741167>

### Question 260

Microsoft Access 2013 is only used to prototype databases where Microsoft Access itself will be the final DBMS.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740528>

### Question 261

Column family databases may use columns, super columns, column families and super column families.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741408>

### Question 262

SQL views are constructed from:

- A) CREATE statements.
- B) INSERT statements.
- C) UPDATE statements.
- D) SELECT statements.
- E) VIEW statements.

Answer: <https://biology-forums.com/index.php?topic=741106>

### Question 263

A library function that can find one C- string inside another is:

- A) strcmp
- B) strstr

- C) strstr
- D) strsearch
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741910>

### Question 264

A member function that is declared \_\_\_\_\_ may not access any non-static data members in the class.

- A) private
- B) public
- C) inline
- D) static
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742099>

### Question 265

True/False: A stack that is implemented as a linked list is known as a deque.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742289>

### Question 266

True/False: To use any of the smart pointers in C++ 11, you must #include the memory header file with the following directive:

#include <memory>

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741903>

### Question 267

Objects have \_\_\_\_\_, which are computer programs that perform some task.

Answer: <https://biology-forums.com/index.php?topic=740900>

### Question 268

To run an SQL script, click the \_\_\_\_\_ button.

Answer: <https://biology-forums.com/index.php?topic=740991>

### Question 269

Which of the following is not a stage in the development of a database system?

- A) Requirements analysis
- B) Validation
- C) Component design
- D) Implementation
- E) All of the above are stages in the development of a database system.

Answer: <https://biology-forums.com/index.php?topic=740531>

### Question 270

The SQL keyword ORDER BY can be used with SELECT statements that are retrieving data from view instances to sort the results of the SELECT. True or False?

Answer: <https://biology-forums.com/index.php?topic=741081>

### Question 271

By default, when Microsoft Access creates a relationship between two tables it creates a(n) \_\_\_\_\_ relationship.

Answer: <https://biology-forums.com/index.php?topic=740650>

### Question 272

In addition to downloading MySQL Community Server and the MySQL Workbench, it is recommended that the \_\_\_\_\_ also be downloaded.

Answer: <https://biology-forums.com/index.php?topic=741054>

### Question 273

Look at the following declaration.

```
enum Tree { OAK, MAPLE, PINE };
```

In memory, what value will the MAPLE enumerator be stored as?

- A) 1
- B) 2
- C) 'M'
- D) 1.0
- E) "MAPLE"

Answer: <https://biology-forums.com/index.php?topic=741976>

### Question 274

A new SQL Server database is created using the \_\_\_\_\_ dialog box.

Answer: <https://biology-forums.com/index.php?topic=740947>

### Question 275

SQL statements can be run individually or as part of a related group of SQL statements known as a script.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741012>

### Question 276

Look at the following function prototype.

```
int myFunction(double);
```

What is the data type of the function's parameter variable?

- A) double
- B) int
- C) void
- D) Can't tell from the prototype

Answer: <https://biology-forums.com/index.php?topic=741760>

### Question 277

When the primary key of one relation is placed in a second relation to represent a relationship, the attribute in the second relation is called a(n) \_\_\_\_\_ key.

Answer: <https://biology-forums.com/index.php?topic=740386>

### Question 278

Because SQL stored procedures allow and encourage code sharing among developers, stored procedures give database application developers the advantages of \_\_\_\_\_.

- A) less work
- B) standardized processing
- C) specialization among developers
- D) A and B
- E) A, B, and C

Answer: <https://biology-forums.com/index.php?topic=741123>

### Question 279

The acronym DBA refers to either the office or the manager.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740664>

### Question 280

This is used to protect important data.

- A) protect() member function
- B) class protection operator, @
- C) private access specifier
- D) public access specifier
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742044>

### Question 281

Data that the database keeps about its own structure is called \_\_\_\_\_.

Answer: <https://biology-forums.com/index.php?topic=740300>

### Question 282

C++ requires that a copy constructor's parameter be a(n) \_\_\_\_\_.

- A) pointer variable
- B) reference object
- C) integer data type
- D) floating point data type
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742090>

### Question 283

To create a 1:1 relationship in Microsoft Access, the Indexed property of the foreign key column must be set to Yes (No Duplicates).

True or False?

Answer: <https://biology-forums.com/index.php?topic=740609>

### Question 284

The ON DELETE CASCADE referential integrity constraint does not apply when rows are deleted using the SQL DELETE command.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740439>

### Question 285

Referential integrity constraints can be created using the ON DELETE phrase when the table is created using the CREATE TABLE statement.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740416>

### Question 286

The algorithms provided by the STL are implemented as \_\_\_\_\_, and perform various operations on elements of containers.

- A) function templates
- B) private data members
- C) virtual functions
- D) global variables
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742195>

### Question 287

When the final value of an expression is assigned to a variable, it will be converted to:

- A) The largest C++ data type
- B) The smallest C++ data type
- C) The data type of the expression
- D) The data type of the variable
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741576>

### Question 288

An important reason for using Oracle Database Express Edition 11g Release 2 is that it has full SQL capabilities.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740960>

### Question 289

Data structures that can dynamically store elements and can grow and shrink in size are:

- A) queues
- B) dequeues
- C) stacks
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742258>

### Question 290

Use the database below to answer the following question.

GENERAL SALES DATABASE:

SALESREP

SalesRepNo RepName HireDate

654 Jones 01/02/1999

734 Smith 02/03/2000

345 Chen 01/25/1998

434 Johnson 11/23/1998

CUSTOMER

CustNo CustName Balance SalesRepNo

9870 Winston 500 345

8590 Gonzales 350 434

7840 Harris 800 654

4870 Miles 100 345

Using the CUSTOMER.Balance column as the column providing the data, create a view to display the results of a computed column. Specifically, assume that all customers are required to maintain a minimum balance of 100, and use the view to display customer name and a number named BalanceOverMinimum that calculates (Balance - 100) for all customers in the GENERAL SALES DATABASE.

Answer: <https://biology-forums.com/index.php?topic=741140>

### Question 291

BI \_\_\_\_\_ are intended to create meaningful information from disparate data sources and to deliver that information to the proper users on a timely basis.

Answer: <https://biology-forums.com/index.php?topic=741362>

### Question 292

A rule that requires that the values in a foreign key must have a matching value in the primary key to which the foreign key corresponds is called:

- A) normalization.
- B) a referential integrity constraint.
- C) a key matching constraint.
- D) a functional dependency.
- E) synchronization.

Answer: <https://biology-forums.com/index.php?topic=740362>

### Question 293

What is the output of the following statement?

```
cout << tolower(toupper('Z')) << endl;
```

- A) upper case Z
- B) lower case z
- C) a compiler error
- D) a lower case z followed by an upper case Z
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741923>

### Question 294

Which of the following is the easiest tool for creating a database with Oracle Database?

- A) The Oracle Database XE 11.2 utility
- B) The Oracle SQL\*Plus command utility program
- C) The Oracle SQL Developer
- D) A and C
- E) A, B and C

Answer: <https://biology-forums.com/index.php?topic=740975>

### Question 295

In RFM analysis, R stands for \_\_\_\_\_.

Answer: <https://biology-forums.com/index.php?topic=741364>

### Question 296

In SQL, the WHERE clause is used to specify which columns will be included in the result.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740421>

### Question 297

You must have a \_\_\_\_\_ for every variable you intend to use in a program.

- A) constant
- B) purpose
- C) comment
- D) definition
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741512>

### Question 298

Microsoft SQL Server 2014 Express Advanced includes:

- A) SQL Server 2014 Management Studio.
- B) SQL Server 2014 Reporting Services.
- C) Windows Installer 4.5.
- D) Both A and B
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=740933>

### Question 299

Dimensional databases use the star schema.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740836>

### Question 300

Standard SQL does not allow built-in functions to be used in a WHERE clause.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740431>

### Question 301

Existing tables in a database can be structurally modified by using the SQL \_\_\_\_\_ command.

Answer: <https://biology-forums.com/index.php?topic=740486>

### Question 302

The result for SELECT statements in SQL is a relation unless the result is a single number.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740419>

### Question 303

There is only one way to install PHP.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741258>

### Question 304

Data types that are created by the programmer are known as \_\_\_\_\_.

- A) abstract data types (ADT)
- B) variables
- C) parameters
- D) functions
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741961>

### Question 305

What is an XML Schema?

Answer: <https://biology-forums.com/index.php?topic=741454>

### Question 306

Arguments are passed to the base class destructor function by the \_\_\_\_\_ class \_\_\_\_\_ function.

- A) base, destructor
- B) derived, destructor
- C) derived, constructor
- D) base, constructor
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742141>

### Question 307

Data models are created during the \_\_\_\_\_ step.

Answer: <https://biology-forums.com/index.php?topic=741184>

### Question 308

True/False: In programming, the terms "line" and "statement" always mean the same thing.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741497>

### Question 309

This function causes a program to terminate, regardless of which function or control mechanism is executing.

- A) return()
- B) exit()
- C) continue()
- D) terminate()
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741740>

### Question 310

True/False: More than one destructor function may be defined for a class.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742077>

### Question 311

What requirements must a two-dimensional table satisfy in order to be a relation?

Answer: <https://biology-forums.com/index.php?topic=740398>

### Question 312

The IIS Web server is automatically installed when the Windows operating system is installed, and no additional steps are necessary to either install or activate it.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741246>

### Question 313

Installing PHP using the Microsoft Web Platform Installer installs the most current version of PHP.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741260>

### Question 314

Microsoft Access 2013 switchboards use command buttons as part of the menu.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741230>

### Question 315

Every DBMS product has a(n) \_\_\_\_\_ that allows DBMS functions to be executed from application program code.

Answer: <https://biology-forums.com/index.php?topic=740797>

### Question 316

In C++ the = operator indicates:

- A) assignment
- B) equality
- C) negation
- D) subtraction
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741631>

### Question 317

One way to specify all of the columns of a table is to use the special character \* after the SQL keyword \_\_\_\_\_.

Answer: <https://biology-forums.com/index.php?topic=740482>

### Question 318

The MySQL Workbench is included in the MySQL Community Server 5.6 installation when the MySQL Installer for Windows is used. True or False?

Answer: <https://biology-forums.com/index.php?topic=741004>

### Question 319

The advantage of a linear search is its \_\_\_\_\_.

- A) efficiency
- B) simplicity
- C) speed
- D) complexity
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741840>

### Question 320

The representation of the content, relationships, and constraints of the data needed to support the system requirements is the:

- A) relation design.
- B) implementation.
- C) data model.
- D) data view.
- E) application program.

Answer: <https://biology-forums.com/index.php?topic=740532>

### Question 321

SQL view instances are retrieved using the:

- A) SQL CREATE statement.
- B) SQL DELETE statement.
- C) SQL INSERT statement.
- D) SQL SELECT statement.
- E) SQL UPDATE statement.

Answer: <https://biology-forums.com/index.php?topic=741108>

### Question 322

Since an SQL view is essentially a stored query, Microsoft Access \_\_\_\_\_ can be used to implement SQL view equivalents.

Answer: <https://biology-forums.com/index.php?topic=741136>

### Question 323

This function accepts a C-string containing a number as its argument and returns the integer equivalent.

- A) int\_from
- B) itoa
- C) strToInt
- D) atoi
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741919>



### Question 324

Distinguish between reprocessing and rollforward as database recovery techniques.

Answer: <https://biology-forums.com/index.php?topic=740737>

### Question 325

What is the output of the following segment of code if the value 4 is input by the user when asked to enter a number?

```
int num;
int total = 0;
cout << "Enter a number from 1 to 10: ";
cin >> num;
switch (num)
{
 case 1:
 case 2: total = 5;
 case 3: total = 10;
 case 4: total = total + 3;
 case 8: total = total + 6;
 default: total = total + 4;
}
```

- cout << total << endl;
- A) 28
  - B) 13
  - C) 0
  - D) 3
  - E) None of these

Answer: <https://biology-forums.com/index.php?topic=741621>

### Question 326

ODBC stands for \_\_\_\_\_.

Answer: <https://biology-forums.com/index.php?topic=740798>

### Question 327

Microsoft Access does not create N:M relationships because Microsoft Access creates databases based on \_\_\_\_\_.

Answer: <https://biology-forums.com/index.php?topic=740648>

### Question 328

NetBeans is an IDE.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741243>

### Question 329

If Circle is a structure, the statement:

```
Circle *pcirc = nullptr;
```

- A) is illegal in C++
- B) declares a structure pointer called pcirc initialized with a null pointer
- C) initializes a null pointer with the value of the Circle pointer
- D) declares an empty structure variable called \*pcirc
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741971>

### Question 330

A data mart differs from a data warehouse in that:

- A) it has a smaller database.
- B) it deals with a particular component or functional area of the business.
- C) data mart users do not have the data management expertise of data warehouse employees.
- D) Both A and B
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=740862>

### Question 331

In database/ XML applications, it is a recommended practice that \_\_\_\_\_ carry data, and that \_\_\_\_\_ carry metadata.

Answer: <https://biology-forums.com/index.php?topic=741447>

### Question 332

True/False: Static binding occurs when the compiler binds a function call with the function call that resides in the same class as the call itself.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742163>

### Question 333

XML Schema elements of the complexType may contain \_\_\_\_\_.

- A) one simple element
- B) one complexType element
- C) more than one simple element
- D) more than one complexType element
- E) Any of the above

Answer: <https://biology-forums.com/index.php?topic=741436>

### Question 334

In Microsoft Visio 2013, for a Relationship object relationship that is many-mandatory on the child side of the relationship, the correct setting in the Symbol menu is:

- A) 1 and only 1.
- B) 1 or more.
- C) Zero or 1.
- D) Zero or more.
- E) Range [At least][At most].

Answer: <https://biology-forums.com/index.php?topic=741218>

### Question 335

The \_\_\_\_\_ operation allows an item to be stored on a stack.

- A) push
- B) add
- C) pop
- D) append
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742248>

### Question 336

This statement will pause the screen, until the [Enter] key is pressed.

- A) `cin.ignore();`
- B) `cin.get();`
- C) `cin.getline();`
- D) `cin.input();`
- E) `cin;`

Answer: <https://biology-forums.com/index.php?topic=741580>

### Question 337

Explain the concept of a surrogate key.

Answer: <https://biology-forums.com/index.php?topic=740404>

### Question 338

To run an SQL script, click the Execute button on the Query Toolbar.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741013>

### Question 339

Microsoft Visio 2013 can be used to create data models, but not database designs.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741193>

### Question 340

When Microsoft Access 2013 compiles VBA code in a database, the resulting file is stored using a(n) \_\_\_\_\_ file extension.

Answer: <https://biology-forums.com/index.php?topic=740726>

### Question 341

A data mart is a collection of data that addresses a particular component or functional area of a business.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740833>

### Question 342

The computer's main memory is commonly known as:

- A) The floppy disk
- B) The hard disk
- C) Secondary storage
- D) RAM
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741463>

### Question 343

When you redefine the way a standard operator works when it is used with class objects, you have \_\_\_\_\_ the operator.

- A) overloaded
- B) reformatted
- C) overwhelmed
- D) reassigned
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742103>

### Question 344

True/False: An expression that has any value other than 0 is considered true by an if statement.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741660>

### Question 345

Briefly describe PHP.

Answer: <https://biology-forums.com/index.php?topic=740815>

### Question 346

Which of the following is not true about a relation?

- A) A relation is a two-dimensional table.
- B) The cells of a relation must hold a single value.
- C) A relation may have duplicate column names.
- D) A relation may not have duplicate rows.
- E) The order of the rows of a relation is insignificant.

Answer: <https://biology-forums.com/index.php?topic=740352>

### Question 347

True/False: To remove a node that has children, you must first remove the children.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742351>

### Question 348

When an element is added to a queue, it is added to the rear. When an element is removed, it is removed from the \_\_\_\_\_.

- A) front
- B) middle

- C) rear
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742266>

### Question 349

If you need to create a primary key that is a composite key using SQL, the key may be defined when the table is created using the CREATE TABLE statement.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740415>

### Question 350

Binary trees can be divided into:

- A) leaves
- B) branches
- C) sawdust
- D) subtrees
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742332>

### Question 351

A use case is a description of the way a user will employ the features and functions of the new system.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740509>

### Question 352

In Microsoft Access, relationships between tables are created:

- A) by the Relationships button on the Create command tab.
- B) by the Relationships button on the Home command tab.
- C) in the Relationships window.
- D) in the Table window of the table containing the primary key.
- E) in the Table window of the table containing the foreign key.

Answer: <https://biology-forums.com/index.php?topic=740379>

### Question 353

A dynamic queue can be implemented as a \_\_\_\_\_.

- A) fixed-length circular array
- B) fixed-length array
- C) dynamic linked list
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742268>

### Question 354

Briefly describe the function of the DBMS in a database system.

Answer: <https://biology-forums.com/index.php?topic=740315>

### Question 355

Which statement opens a file in such a way that information will only be written to its end?

- A) `dataFile.open("info.dat", ios::out | ios::app);`
- B) `open(dataFile.append);`
- C) `dataFile.open.append("info.dat");`
- D) `dataFile.open = "C:\info.dat" ios::append;`
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742019>

### Question 356

Recursive relationships occur when an entity has a relationship with \_\_\_\_\_.

Answer: <https://biology-forums.com/index.php?topic=740564>

### Question 357

True/False: C++ permits you to overload the sizeof operator and the this pointer.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742116>

### Question 358

Explain the essential format of the CREATE TABLE statement.

Answer: <https://biology-forums.com/index.php?topic=740496>

### Question 359

The metadata maintained by a reporting system database describes:

- A) reports.
- B) users.
- C) groups.
- D) roles.
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741337>

### Question 360

Distinguish between Char and VarChar data types.

Answer: <https://biology-forums.com/index.php?topic=740498>

### Question 361

Array elements must be \_\_\_\_\_ before a binary search can be performed.

- A) summed
- B) sorted
- C) set to zero
- D) positive numbers
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741844>

### Question 362

Passing a structure as a constant reference parameter to a function \_\_\_\_\_.

- A) guarantees not to result in changes to the structure's members
- B) can potentially result in changes to the structure's members
- C) will always change the structure's members
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741954>

### Question 363

A binary search begins with the \_\_\_\_\_ element of an array.

- A) largest
- B) last
- C) middle
- D) first
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741842>

### Question 364

True/False: It is possible for a structure to contain as a member a pointer to its own structure type.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741992>

### Question 365

A(n) \_\_\_\_\_ is a set of components that interact to achieve some purpose or goal.

Answer: <https://biology-forums.com/index.php?topic=741173>

### Question 366

These types of arguments are passed to parameters automatically if no argument is provided in the function call.

- A) Relational
- B) Default
- C) Global
- D) Local
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741736>

### Question 367

A linked list is a series of connected \_\_\_\_\_.

- A) ADTs
- B) nodes
- C) vectors
- D) algorithms
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742207>

### Question 368

True/False: A derived class may become a base class, if another class is derived from it.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742159>

### Question 369

Microsoft Access 2013 uses a user-level security system.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740683>

### Question 370

A practical application of this function is to allow a user to enter a response of 'y' or 'Y' to a prompt.

- A) tolower
- B) toupper
- C) A or B
- D) ignorecase
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741918>

### Question 371

True/False: The width of a tree is the largest number of nodes in the same level.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742352>

### Question 372

To create a new MySQL Workbench EER model, you can use the File | New Model command.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741021>

### Question 373

Business Intelligence (BI) \_\_\_\_\_ uses sophisticated statistical and mathematical techniques to perform what-if analyses, to make predictions, and to facilitate decision making.

Answer: <https://biology-forums.com/index.php?topic=740886>

### Question 374

XML documents that are not-type-valid can still be \_\_\_\_\_.

- A) DTD-valid

- B) XML-valid
- C) DTD-compliant
- D) XML-compliant
- E) proper XML documents

Answer: <https://biology-forums.com/index.php?topic=741428>

### Question 375

Apache Cassandra is an example of a(n) \_\_\_\_\_ non-relational DBMS.

Answer: <https://biology-forums.com/index.php?topic=740901>

### Question 376

To use the strlen function in a program, you must also write #include \_\_\_\_\_.

- A) <cstring>
- B) <strlen>
- C) <stringlib>
- D) <iostream>
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741925>

### Question 377

The IIS Web server is managed using the Microsoft Internet Information Service (IIS) Manager.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741247>

### Question 378

Unlike regular variables, these can hold multiple values.

- A) arrays
- B) constants
- C) named constants
- D) floating-point variables
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741781>

### Question 379

The following statement:

```
int *ptr = new int;
```

- A) results in a compiler error
- B) assigns an address to the variable named ptr
- C) creates a new pointer named int
- D) assigns an integer less than 32767 to the variable named ptr
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741883>

### Question 380

A relational database stores data in the form of:

- A) lists.
- B) forms.
- C) columns.
- D) tables.
- E) spreadsheets.

Answer: <https://biology-forums.com/index.php?topic=740276>

### Question 381

What are "referential integrity constraints"? Give an example.

Answer: <https://biology-forums.com/index.php?topic=740316>

### Question 382

Microsoft Access 2013 switchboards build command buttons by using the \_\_\_\_\_.

Answer: <https://biology-forums.com/index.php?topic=741241>

### Question 383

When an array is sorted from highest to lowest, it is said to be in \_\_\_\_\_ order.

- A) reverse
- B) ascending
- C) forward
- D) descending
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741849>

### Question 384

This is required after the closing brace of the structure declaration.

- A) square bracket
- B) semicolon
- C) period
- D) colon
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741951>

### Question 385

This type of member variable may be accessed before any objects of the class have been created.

- A) inline
- B) private
- C) public
- D) static
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742088>

### Question 386

This vector function removes an item from a vector.

- A) erase
- B) pop\_back
- C) delete\_item
- D) remove\_item

Answer: <https://biology-forums.com/index.php?topic=741823>

### Question 387

A commonly used Web server on servers running the Linux operating system is \_\_\_\_\_.

Answer: <https://biology-forums.com/index.php?topic=740799>

### Question 388

To run an SQL query, click the \_\_\_\_\_ button.

Answer: <https://biology-forums.com/index.php?topic=740992>

### Question 389

A document database may use either XML or JSON as the basis for storing data.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741386>

### Question 390

This is like a structure, except all members occupy the same memory area.

- A) array of pointers
- B) structure pointer
- C) array
- D) union
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741955>

### Question 391



This operator may be used to assign one object to another.

- A) <>
- B) =
- C) ==
- D) @
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742089>

### Question 392

\_\_\_\_\_ represent storage locations in the computer's memory.

- A) Literals
- B) Comments
- C) Variables
- D) Integers
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741510>

### Question 393

Users log into SQL Server 2014 Express using the \_\_\_\_\_ dialog box.

Answer: <https://biology-forums.com/index.php?topic=740944>

### Question 394

True/False: Floating point constants are normally stored in memory as doubles.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741560>

### Question 395

True/False: A CPU really only understands instructions that are written in machine language.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741501>

### Question 396

Given the table

CUSTOMER(CustID, Name, PhoneNum, AcctBalance)

what is the standard SQL query phrase to retrieve data for customers with an account balance greater than 50?

- A) WHERE CUSTOMER-AcctBalance > 50
- B) WHERE (CUSTOMER-AcctBalance > 50)
- C) WHERE AcctBalance > 50
- D) WHERE (AcctBalance > 50)
- E) HAVING AcctBalance > 50

Answer: <https://biology-forums.com/index.php?topic=740463>

### Question 397

When creating a table in the relational database design from an entity in the extended E-R model, the attributes of the entity become the rows of the table.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740588>

### Question 398

For a Web server running the Linux operating system, the most commonly used Web server is:

- A) the IIS Web server.
- B) the Apache Web server.
- C) the Tomcat Web server.
- D) the ASP.NET Web server.
- E) the JSP Web server.

Answer: <https://biology-forums.com/index.php?topic=741262>

### Question 399

Every table is a relation, but not every relation is a table.  
True or False?

Answer: <https://biology-forums.com/index.php?topic=740323>

### Question 400

What is PHP (in three sentences)?

Answer: <https://biology-forums.com/index.php?topic=741274>

### Question 401

Explain the concept of a functional dependency.

Answer: <https://biology-forums.com/index.php?topic=740406>

### Question 402

What will the following code output?

```
int number = 22;
int *var = &number;
cout << *var << endl;
```

- A) The address of the number variable
- B) An asterisk followed by the address of the number variable
- C) An asterisk followed by 22
- D) 22

Answer: <https://biology-forums.com/index.php?topic=741889>

### Question 403

This state bit can be tested to see if the end of an input stream is encountered.

- A) ios::eof
- B) ios::failbit
- C) ios::eofbit
- D) ios::badbit
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742010>

### Question 404

If you are using an older compiler that does not support the C++ 11 standard, you should initialize pointers with \_\_\_\_\_.

- A) the null terminator '\0'
- B) a nonzero value
- C) the integer 0, or the value NULL
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741884>

### Question 405

A subquery is appropriate only if the final result contains only data from a single table.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740435>

### Question 406

Any table that meets the requirements of a(n) \_\_\_\_\_ is in first normal form.

Answer: <https://biology-forums.com/index.php?topic=740392>

### Question 407

Graph databases are composed of three elements, one of which is the node.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741410>

### Question 408

The contents of pointer variables may be changed with mathematical statements that perform \_\_\_\_\_.

- A) all mathematical operations that are legal in C++
- B) multiplication and division
- C) addition and subtraction
- D) B and C
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741864>

### Question 409

What does the following statement do?

- ```
vector<int> v(10);
```
- A) It creates a vector object and initializes the first element with the value 10.
 - B) It creates a vector object that can store only values of 10 or less.
 - C) It creates a vector object and initializes all of its elements to the value 10.
 - D) It creates a vector object with a starting size of 10.

Answer: <https://biology-forums.com/index.php?topic=741818>

Question 410

This vector function returns true if the vector has no elements.

- A) empty
- B) has_no_elements
- C) is_empty
- D) null_size

Answer: <https://biology-forums.com/index.php?topic=741824>

Question 411

The relationship between two attributes that denotes that if the value of the first attribute is known, then the value of the second attribute can be determined, is called a(n) _____.

Answer: <https://biology-forums.com/index.php?topic=740389>

Question 412

A stored program that is attached to a table or view is called a stored procedure.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741090>

Question 413

When using SQL to create a table, specifying a data type of Char(10) indicates a fixed length field of 10 characters.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740413>

Question 414

In Microsoft Visio 2013, we can create database designs using:

- A) Entity and Dynamic connector objects.
- B) Entity and Relationship connector objects.
- C) Category and Dynamic connector objects.
- D) Category and Relationship connector objects.
- E) We cannot create database designs in Microsoft Visio 2013.

Answer: <https://biology-forums.com/index.php?topic=741213>

Question 415

True/False: The ampersand (&) is used to dereference a pointer variable in C++.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741900>

Question 416

Assuming that Rectangle is a class name, the statement:

```
Rectangle *BoxPtr;
```

- A) is illegal in C++

- B) declares an object of class Rectangle
- C) defines a Rectangle pointer variable called BoxPtr
- D) assigns the value of *BoxPtr to the object Rectangle
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742057>

Question 417

In the MySQL Table Editor, the abbreviation PK stands for partial key.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741024>

Question 418

The do-while loop is considered a(n) _____ loop.

- A) pre-test
- B) limited
- C) infinite
- D) post-test
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741686>

Question 419

To format an Excel 2013 PivotTable report, we use the _____ command tab.

Answer: <https://biology-forums.com/index.php?topic=740907>

Question 420

The SQL command CREATE VIEW is used to create view structures.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741079>

Question 421

To create an OLAP report for an Access 2013 database, use the PivotTable tool in Access 2013.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740846>

Question 422

A class may have this many default constructor(s).

- A) more than one
- B) any number
- C) only one
- D) a maximum of two
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742062>

Question 423

What will the value of x be after the following statements execute?

```
int x;
```

```
x = 18.0 / 4;
```

- A) 4.5
- B) unknown
- C) 0
- D) 4

Answer: <https://biology-forums.com/index.php?topic=741548>

Question 424

Use the delete operator only on pointers that were _____.

- A) not correctly initialized
- B) never used
- C) dereferenced inappropriately

- D) created with the new operator
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741869>

Question 425

Microsoft Access 2013 uses the AutoNumber data type to create surrogate keys.
True or False?

Answer: <https://biology-forums.com/index.php?topic=740272>

Question 426

These are used to signal errors or unexpected events that occur while a program is running.

- A) Templates
- B) Virtual functions
- C) Exceptions
- D) Destructors
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742167>

Question 427

The CurrVal method provides the current value in a sequence.
True or False?

Answer: <https://biology-forums.com/index.php?topic=740970>

Question 428

True/False: The structure pointer operator is used to dereference a pointer to a structure, not a pointer that is a member of a structure.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741983>

Question 429

Briefly define the three problems that can occur because of concurrent processing that are addressed by resource locking.

Answer: <https://biology-forums.com/index.php?topic=740731>

Question 430

Computer systems fail for which of the following reasons?

- A) Hardware breaks.
- B) Electrical power fails.
- C) Programs have bugs.
- D) People make mistakes.
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=740707>

Question 431

True/False: The pop function in the stack template does not retrieve the value from the top of the stack. It merely removes it.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742283>

Question 432

XML allows a programmer to:

- A) define elements.
- B) use only predefined elements.
- C) use only "shrink-warped," purchased programs.
- D) Both A and B
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=740788>

Question 433

Which of the following is not true about surrogate keys?

- A) They are identifiers that are supplied by the system, not the users.
- B) They have no meaning to the users.
- C) They are nonunique within a table.
- D) They can be problematic when combining databases.
- E) The DBMS will not allow their values to be changed.

Answer: <https://biology-forums.com/index.php?topic=740615>

Question 434

What will the following program segment display?

```
int funny = 7, serious = 15;
funny = serious % 2;
if (funny != 1)
{
    funny = 0;
    serious = 0;
}
else if (funny == 2)
{
    funny = 10;
    serious = 10;
}
else
{
    funny = 1;
    serious = 1;
}
cout << funny << " " << serious << endl;
```

- A) 1 1
- B) 10 10
- C) 0 0
- D) 7 15
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741634>

Question 435

This control sequence is used to skip over to the next horizontal tab stop.

- A) \h
- B) \t
- C) \n
- D) \a
- E) \'

Answer: <https://biology-forums.com/index.php?topic=741536>

Question 436

Given the table STUDENT(StudentID, Name, Advisor), which of the following SQL statements would be used to add new student data to the STUDENT table?

- A) INSERT DATA STUDENT SET StudentID=123, Name='Jones', Advisor='Smith';
- B) INSERT INTO STUDENT VALUES (123, 'Jones', 'Smith');
- C) INSERT INTO STUDENT (New Student Data) VALUES (123, 'Jones', 'Smith');
- D) INPUT DATA STUDENT SET StudentID=123, Name=' Jones', Advisor='Smith';
- E) INPUT INTO STUDENT (123, 'Jones', 'Smith');

Answer: <https://biology-forums.com/index.php?topic=740451>

Question 437

True/False: The line containing a throw statement is known as the throw point.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742202>

Question 438

Based on the tables below, which of the following SQL commands would create an SQL view named CustomerSalesRep that could be used to display

CustNo, CustName, RepName?

GENERAL SALES DATABASE:

SALESREP

SalesRepNo RepName HireDate

654 Jones 01/02/1999

734 Smith 02/03/2000

345 Chen 01/25/1998

434 Johnson 11/23/1998

CUSTOMER

CustNo CustName Balance SalesRepNo

9870 Winston 500 345

8590 Gonzales 350 434

7840 Harris 800 654

4870 Miles 100 345

A) SELECT CustNo, CustName, RepName

FROM SALESREP, CUSTOMER;

B) SELECT CustNo, CustName, RepName

FROM SALESREP, CUSTOMER

WHERE CustNo=*;

C) SELECT CustNo, CustName, RepName

FROM SALESREP, CUSTOMER

WHERE SALEREP, SalesRepNo = CUSTOMER, SalesRepNo;

D) CREATE VIEW CustomerSalesRep AS

SELECT CustNo, CustName, RepName

FROM SALESREP, CUSTOMER

WHERE CustNo=*;

E) CREATE VIEW CustomerSalesRep AS

SELECT CustNo, CustName, RepName

FROM SALESREP, CUSTOMER

WHERE SALEREP, SalesRepNo = CUSTOMER, SalesRepNo;

Answer: <https://biology-forums.com/index.php?topic=741114>

Question 439

True/False: The names of the enumerators in an enumerated data type must be enclosed in quotation marks.

A) True

B) False

Answer: <https://biology-forums.com/index.php?topic=741995>

Question 440

When objects contain pointers, it is a good idea to create an explicit _____ function.

A) inline constructor

B) static constructor

C) copy constructor

D) destructor

E) None of these

Answer: <https://biology-forums.com/index.php?topic=742092>

Question 441

When an entity class has a relationship with itself, it is called a(n) _____ relationship.

Answer: <https://biology-forums.com/index.php?topic=740561>

Question 442

A dimensional database uses a(n) _____.

Answer: <https://biology-forums.com/index.php?topic=740891>

Question 443

Excel 2013 allows us to connect directly to an Access 2013 database when building a PivotTable.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740848>

Question 444

The creation of a database and its tables is a function of which component of the database system?

- A) Users
- B) Application
- C) DBMS
- D) Database
- E) Web server

Answer: <https://biology-forums.com/index.php?topic=740283>

Question 445

True/False: A public data member may be declared a friend of a private function.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742115>

Question 446

Transaction results are kept in a(n) _____, which contains records of the data changes in chronological order.

Answer: <https://biology-forums.com/index.php?topic=740719>

Question 447

True/False: A while loop's body can contain multiple statements, as long as they are enclosed in braces.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741713>

Question 448

True/False: Each individual element of an array can be accessed by the array name and an element number, called a subscript.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741836>

Question 449

Systems analysis and design is the process of creating and maintaining information systems.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741153>

Question 450

In XML, a document author can only use the predefined XML tags.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740760>

Question 451

Explain maximum cardinality.

Answer: <https://biology-forums.com/index.php?topic=740575>

Question 452

XML documents that conform to an XML Schema are validated against that schema.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741399>

Question 453

One of the major tasks of the database administration is called _____ control, which allows multiple users to access the database simultaneously.

Answer: <https://biology-forums.com/index.php?topic=740714>

Question 454

Which of the following is a type of element in an XML Schema?

- A) simple

- B) composite
- C) compound
- D) complex
- E) A and D

Answer: <https://biology-forums.com/index.php?topic=741435>

Question 455

This library function reverses the order of a C-string.

- A) strrev
- B) reverstr
- C) backward
- D) reversit
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741930>

Question 456

For a(n) _____ weak entity, it is necessary to add the key of the parent entity to the weak entity's relation so that this added attribute becomes part of the weak entity's key.

Answer: <https://biology-forums.com/index.php?topic=740646>

Question 457

The number of entity classes involved in a relationship is known as the relationship's:

- A) maximum cardinality.
- B) minimum cardinality.
- C) ordinality.
- D) degree.
- E) class.

Answer: <https://biology-forums.com/index.php?topic=740540>

Question 458

The _____ is adequate for searching through small arrays.

- A) linear search
- B) binary search
- C) unary search
- D) bubble sort
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741850>

Question 459

True/False: A program may not contain both a "regular" version of a function and a template version of the function.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742198>

Question 460

True/False: When typing in your source code into the computer, you must be very careful since most of your C++ instructions, header files, and variable names are case sensitive.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741555>

Question 461

A new MySQL database is created using:

- A) the new_database dialog box.
- B) the Create Database command.
- C) the new_schema dialog box.
- D) the Create Schema command.
- E) the New Object dialog box.

Answer: <https://biology-forums.com/index.php?topic=741033>

Question 462

A relational database stores data in the form of _____.

Answer: <https://biology-forums.com/index.php?topic=740297>

Question 463

True/False: A function's return data type must be the same as the function's parameter(s).

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741774>

Question 464

An example of a document database is _____.

- A) Dynamo
- B) Couchbase Server
- C) Bigtable
- D) Neo4j
- E) MySQL

Answer: <https://biology-forums.com/index.php?topic=741416>

Question 465

A BEFORE trigger is called by the DBMS before reading data.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740740>

Question 466

Look at the following structure declaration.

```
struct Employee
{
    string name;
    int idNum;
};
```

In this declaration, Employee is:

- A) a tag
- B) a member
- C) an array
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=741978>

Question 467

Relationships with the degree 2 are often called _____ relationships.

Answer: <https://biology-forums.com/index.php?topic=740560>

Question 468

SQL views are constructed from SQL _____ statements.

Answer: <https://biology-forums.com/index.php?topic=741127>

Question 469

During which stage does the central processing unit analyze the instruction and encode it in the form of a number, and then generate an electronic signal?

- A) decode
- B) fetch
- C) execute
- D) portability stage

Answer: <https://biology-forums.com/index.php?topic=741482>

Question 470

The QuickSort algorithm was developed in 1960 by _____.

- A) Bjarne Stroustrup

- B) C.M. Turner
- C) Tony Gaddis
- D) C.A.R. Hoare
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742303>

Question 471

A Microsoft Access 2013 switchboard provides networking capabilities in Microsoft Access 2013.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741226>

Question 472

The default Web page for the IIS Web server is:

- A) startup.html.
- B) startup.htm.
- C) iistart.html.
- D) iistart.htm.
- E) index.html.

Answer: <https://biology-forums.com/index.php?topic=741264>

Question 473

The _____ marker is the character that marks the end of a file, and is automatically written when the file is closed.

- A) Data Stream Close (DSC)
- B) End of File (EOF)
- C) No More Data (NMD)
- D) Data Read Stop (DRS)
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742009>

Question 474

SQL triggers can be used when the DBMS receives an UPDATE request.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741096>

Question 475

Which of the following is an SQL trigger that Microsoft SQL Server supports?

- A) BEFORE
- B) INSTEAD OF
- C) AFTER
- D) B and C only
- E) A, B, and C

Answer: <https://biology-forums.com/index.php?topic=741118>

Question 476

What will the following code display?

```
int number = 6
int x = 0;
x = --number;
cout << x << endl;
```

- A) 6
- B) 5
- C) 7
- D) 0

Answer: <https://biology-forums.com/index.php?topic=741698>

Question 477

This is a statement that causes a function to execute.

- A) for loop
- B) do-while loop
- C) function call

- D) function prototype
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741742>

Question 478

Business Intelligence (BI) systems are information systems that help users analyze and use data.
True or False?

Answer: <https://biology-forums.com/index.php?topic=740822>

Question 479

HTML standards are defined by the World Wide Web Consortium (W3C).
True or False?

Answer: <https://biology-forums.com/index.php?topic=740757>

Question 480

What relationship pattern is illustrated in the following schema?
PRODUCT (ProductID, Description)
SUPPLIER (SupplierID, ContactName, PhoneNumber)
PRODUCT_SUPPLIER (ProductID, SupplierID, Cost)
ProductID in PRODUCT_SUPPLIER must exist in ProductID in PRODUCT
SupplierID in PRODUCT_SUPPLIER must exist in SupplierID in PRODUCT

- A) Association relationship
- B) Intersection relationship
- C) Recursive relationship
- D) Strong entity relationship
- E) Supertype/subtype relationship

Answer: <https://biology-forums.com/index.php?topic=740631>

Question 481

A new SQL Server database is created using:

- A) the New Database dialog box.
- B) the Create Database command.
- C) the Create New Schema dialog box.
- D) the Create Schema command.
- E) the New Object dialog box.

Answer: <https://biology-forums.com/index.php?topic=740936>

Question 482

True/False: When working with a linked list, one of the basic operations you can perform is to destroy the list.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742232>

Question 483

To create a well-formed relation through normalization, every determinant must be a candidate key.
True or False?

Answer: <https://biology-forums.com/index.php?topic=740340>

Question 484

Data is facts and numbers.
True or False?

Answer: <https://biology-forums.com/index.php?topic=741145>

Question 485

Discuss Microsoft Access 2013 security administration.

Answer: <https://biology-forums.com/index.php?topic=740738>

Question 486

True/False: A local variable and a global variable may not have the same name within the same program.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741771>

Question 487

A stack can be adapted to store _____ data types.

- A) only abstract
- B) deque-like
- C) all
- D) only the built-in C++
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742271>

Question 488

True/False: A static member variable can be used when there are no objects of the class in existence.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742117>

Question 489

In Microsoft Access, relationships between tables are created in the Relationships window.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740348>

Question 490

True/False: When you overload the << operator, you must also overload the >> operator.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742118>

Question 491

When using Microsoft Access and IIS, there is no need for an ODBC data source.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740766>

Question 492

To pass an array as an argument to a function, pass the _____ of the array.

- A) name
- B) value of the first element
- C) size, expressed as an integer
- D) contents
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741802>

Question 493

To log into a workspace connection in Oracle SQL Developer, use the username and password you created for Application Express.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740965>

Question 494

In Microsoft Visio 2013, which object can be formatted with the line end symbols needed to create IE Crow's Foot notation?

- A) Dynamic connector object
- B) Relationship connector object
- C) Category object
- D) Parent to category connector object
- E) Category to child connector object

Answer: <https://biology-forums.com/index.php?topic=741216>

Question 495

In general, the best type of ODBC data source that can be defined for a Web application is a system data source.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740755>

Question 496

One of the important properties of a column is whether or not it is _____.

- A) found in more than one entity
- B) required
- C) character or numeric
- D) subject to normalization
- E) subject to denormalization

Answer: <https://biology-forums.com/index.php?topic=740616>

Question 497

What is the output of the following program?

```
#include <iostream>
using namespace std;
int getValue(int);
int main()
{
    int x = 2;

    cout << getValue(x) << endl;
    return 0;
}
int getValue(int num)
{
    return num + 5;
}
```

- A) 7
- B) 5
- C) 2
- D) "getValue(x)"

Answer: <https://biology-forums.com/index.php?topic=741763>

Question 498

What will the following code do?

```
const int SIZE = 5;
double x[SIZE];
for(int i = 2; i <= SIZE; i++)
{
    x[i] = 0.0;
}
```

- A) Each element in the array, except the first and the last, is initialized to 0.0
- B) Each element in the array, except the first, is initialized to 0.0
- C) Each element in the array is initialized to 0.0
- D) An error will occur when the code runs

Answer: <https://biology-forums.com/index.php?topic=741815>

Question 499

Assuming x is 5, y is 6, and z is 8, which of the following is false?

1. $x == 5$;
2. $7 <= (x + 2)$;
3. $z < = 4$;
4. $(1 + x) != y$;
5. $z >= 8$;
6. $x >= 0$;
7. $x <= (y * 2)$

- A) Only 5 is false.
- B) 3 and 4 are false.
- C) All are false.

D) 3, 4, 6, 7 are false.

E) None of these.

Answer: <https://biology-forums.com/index.php?topic=741625>

Question 500

Which of the following is a reason that operational data are difficult to read?

A) Dirty data

B) Missing values

C) Non-integrated data

D) Both A and B

E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741325>

Question 501

When using Microsoft Access and IIS, a good basic ASCII text editor for producing HTML is _____.

Answer: <https://biology-forums.com/index.php?topic=740806>

Question 502

SQL views contain their own data.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741076>

Question 503

What is a conformed dimension?

Answer: <https://biology-forums.com/index.php?topic=740915>

Question 504

What program must be installed before the installation of the NetBeans IDE, and how do you obtain and install this product?

Answer: <https://biology-forums.com/index.php?topic=741276>

Question 505

True/False: A function cannot modify the members of a structure.

A) True

B) False

Answer: <https://biology-forums.com/index.php?topic=741985>

Question 506

If the computer hosting the Web server is running a Windows operating system, the Web server is probably:

A) Apache.

B) Tomcat.

C) Internet Information Services (IIS).

D) Internet Interpreter Server (IIS).

E) Information Interpreter Server (IIS).

Answer: <https://biology-forums.com/index.php?topic=740774>

Question 507

Assuming ptr is a pointer variable, what will the following statement output?

```
cout << *ptr;
```

A) The string "*ptr".

B) The address of the variable whose address is stored in ptr.

C) The value stored in the variable whose address is contained in ptr.

D) The address of the variable stored in ptr.

E) None of these

Answer: <https://biology-forums.com/index.php?topic=741877>

Question 508

Look at the following function prototype.

```
int myFunction(double);
```

What is the data type of the function's return value?

- A) void
- B) double
- C) int
- D) Can't tell from the prototype

Answer: <https://biology-forums.com/index.php?topic=741761>

Question 509

In the following code, assume the myQueue object is a queue that can hold integers, and that value is an int variable. (The lines are numbered for reference purposes.)

```
1 myQueue.enqueue(0);
2 myQueue.enqueue(1);
3 myQueue.enqueue(2);
4 myQueue.dequeue(value);
5 myQueue.enqueue(3);
6 myQueue.dequeue(value);
7 cout << value << endl;
```

Assume that the dequeue function, called in lines 4, and 6, stores the number removed from the queue in the value variable.

What will the statement in line 7 display?

- A) 0
- B) 1
- C) 2
- D) 3
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742278>

Question 510

A two-dimensional array is like _____ put together.

- A) two functions
- B) two arrays of different types
- C) an array and a function
- D) several identical arrays
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741788>

Question 511

In the general division of labor between database applications and the DBMS, the processing of forms is considered a DBMS task.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740263>

Question 512

A character literal is enclosed in _____ quotation marks, whereas a string literal is enclosed in _____ quotation marks.

- A) double, single
- B) open, closed
- C) triple, double
- D) single, double
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741516>

Question 513

"Whitespace" encompasses which of the following?

- A) newline
- B) space
- C) tab
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741917>

Question 514

Operational databases contain a fact table.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740837>

Question 515

True/False: In C++ 11, you cannot use a range-based for loop to modify the contents of an array unless you declare the range variable as a reference.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741833>

Question 516

An array of string objects that will hold 5 names would be declared using which statement?

- A) string names[5];
- B) string names(5);
- C) String[5] names;
- D) string names5;
- E) None of these will work.

Answer: <https://biology-forums.com/index.php?topic=741808>

Question 517

In Microsoft Visio 2013, clicking the File command tab opens the Backstage view. True or False?

Answer: <https://biology-forums.com/index.php?topic=741194>

Question 518

Which of the following is the correct technique for representing a 1:N relationship in the relational model?

- A) The key of the entity on the one side is placed into the relation for the entity on the many side.
- B) The key of the child is placed into the relation of the parent.
- C) The key of either relation can be placed into the other relation.
- D) The key of the entity on the many side is placed into the relation for the entity on the one side.
- E) An intersection relation is created, and the keys from both parent entities are placed as keys in the intersection relation.

Answer: <https://biology-forums.com/index.php?topic=740622>

Question 519

A variable's _____ is the part of the program that has access to the variable.

- A) data type
- B) scope
- C) value
- D) reach
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741534>

Question 520

What will the value of result be after the following statement executes?

result = 6 - 3 * 2 + 7 - 10 / 2 ;

- A) 6
- B) 2
- C) 1.5
- D) 8

Answer: <https://biology-forums.com/index.php?topic=741591>

Question 521

The SQL command SELECT is used to retrieve data from view instances.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741080>

Question 522

When the body of a member function is defined inside a class declaration, it is said to be _____.

- A) conditional
- B) static

- C) inline
- D) global
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742047>

Question 523

Why is operational data sometimes unusable for Business Intelligence purposes?

Answer: <https://biology-forums.com/index.php?topic=741374>

Question 524

Normalization is the process of removing all functional dependencies from a relation.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740339>

Question 525

SQL triggers can be used with SQL operations INSERT, UPDATE, and DELETE.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741092>

Question 526

The primary key is used both to identify unique rows in a relation and to represent rows in relationships.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740330>

Question 527

Look at the following statement.

```
bookList[2].publisher[3] = 't';
```

This statement _____.

- A) will store the character 't' in the fourth element of the publisher member of booklist[2]
- B) will ultimately result in a runtime error
- C) will change the publisher's name of the second book in bookList to 't'
- D) is illegal in C++
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741952>

Question 528

Data models are created during the component design step.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741157>

Question 529

In the normalization process, it is not necessary to:

- A) identify all the candidate keys of a relation.
- B) identify all the foreign keys of a relation.
- C) identify all the functional dependencies of a relation.
- D) identify all the determinants of a relation.
- E) determine if every determinant is a candidate key.

Answer: <https://biology-forums.com/index.php?topic=740374>

Question 530

To create a new SQL query, click the _____ button.

Answer: <https://biology-forums.com/index.php?topic=740993>

Question 531

This is a collection of statements that performs a specific task.

- A) constant
- B) function
- C) infinite loop
- D) variable

E) None of these

Answer: <https://biology-forums.com/index.php?topic=741728>

Question 532

True/False: Both of the following if statements perform the same operation.

```
if (sales > 10000)
```

```
    commissionRate = 0.15;
```

```
if (sales > 10000) commissionRate = 0.15;
```

A) True

B) False

Answer: <https://biology-forums.com/index.php?topic=741658>

Question 533

True/False: Assuming myValues is an array of int values, and index is an int variable, both of the following statements do the same thing.

```
cout << myValues[index] << endl;
```

```
cout << *(myValues + index) << endl;
```

A) True

B) False

Answer: <https://biology-forums.com/index.php?topic=741901>

Question 534

Subscript numbering in C++ _____.

A) begins with zero

B) can begin with a programmer-defined value

C) varies from program to program

D) can be set at runtime

E) None of these

Answer: <https://biology-forums.com/index.php?topic=741796>

Question 535

This directive is used to create an "include guard," which allows a program to be conditionally compiled. This prevents a header file from accidentally being included more than once.

A) #guard

B) #endif

C) #include

D) #ifndef

E) None of these

Answer: <https://biology-forums.com/index.php?topic=742046>

Question 536

Which of the following is not a standard data type used in SQL?

A) Text

B) Char

C) Varchar

D) Integer

E) Numeric

Answer: <https://biology-forums.com/index.php?topic=740447>

Question 537

Although Microsoft Access is a personal database, it is still subject to the following modification problem(s):

A) problems adding data.

B) problems changing data.

C) problems deleting data.

D) All of the above

E) None of the above

Answer: <https://biology-forums.com/index.php?topic=740378>

Question 538

If you place a semicolon after the statement:

if (x < y)

- A) The compiler will interpret the semicolon as a null statement.
- B) The code will not compile.
- C) The if statement will always evaluate to false.
- D) All of the above
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741615>

Question 539

Which symbol is used in standard SQL as a wildcard to represent a single, unspecified character?

- A) % (percent sign)
- B) ! (exclamation mark)
- C) _ (underscore)
- D) ? (question mark)
- E) ; (semi-colon)

Answer: <https://biology-forums.com/index.php?topic=740457>

Question 540

Which of the following is not a source for user requirements during the requirements analysis stage of developing a database system?

- A) Business rules
- B) User interviews
- C) Forms
- D) Use cases
- E) All of the above are sources for user requirements.

Answer: <https://biology-forums.com/index.php?topic=740534>

Question 541

What will the following C++ 11 code display?

```
vector<int> numbers { 3, 5 };  
for (int val : numbers)  
    cout << val << endl;
```

- A) 3
3
3
3
3
3
3
- B) 3
5
5
- C) 5
5
5
- D) Nothing. This code has an error.

Answer: <https://biology-forums.com/index.php?topic=741819>

Question 542

What is denormalization and why can it be desirable?

Answer: <https://biology-forums.com/index.php?topic=740655>

Question 543

Data that is sorted in ascending order is ordered _____.

- A) from lowest to highest value
- B) always with a binary sort algorithm
- C) always with a linear sort algorithm
- D) from highest to lowest value
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741847>

Question 544

Variations of the linked list are:

- A) doubly-linked list

- B) circular linked list
- C) backward linked list
- D) A and B
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742226>

Question 545

Compare the characteristics of an operational database and a dimensional database.

Answer: <https://biology-forums.com/index.php?topic=740912>

Question 546

Apache Cassandra is an example of a(n) _____ non-relational DBMS.

- A) Key-Value
- B) Document
- C) Column Family
- D) Graph
- E) Object-Oriented

Answer: <https://biology-forums.com/index.php?topic=740873>

Question 547

True/False: One purpose that destructor functions are often used for is to free memory that was allocated by the object.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742085>

Question 548

If a server is using a Microsoft Windows operating system, it is usually running Internet Information Services (IIS) as its Web server.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740746>

Question 549

Microsoft Access uses the same pure N:M relationships that occur in data modeling.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740605>

Question 550

SQL statements can be run individually or as part of a related group of SQL statements known as a(n) _____.

Answer: <https://biology-forums.com/index.php?topic=741061>

Question 551

When the primary key of one relation is placed into a second relation, it is called a:

- A) field key.
- B) referential integrity.
- C) foreign key.
- D) candidate key.
- E) relocated key.

Answer: <https://biology-forums.com/index.php?topic=740360>

Question 552

Excel 2013 cannot import Access 2013 data directly into a PivotTable report, but must first place the data into a worksheet.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740849>

Question 553

In Microsoft Access, referential integrity constraints are created in the _____.

Answer: <https://biology-forums.com/index.php?topic=740397>

Question 554

With pointer variables, you can _____ manipulate data stored in other variables.

- A) indirectly
- B) never
- C) seldom
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741860>

Question 555

Assume that x is an int variable. What value is assigned to x after the following assignment statement is executed?

- $x = -3 + 4 \% 6 / 5;$
- A) 2
 - B) 1
 - C) 0
 - D) -3
 - E) None of these

Answer: <https://biology-forums.com/index.php?topic=741582>

Question 556

With Oracle Database, data must be entered using SQL INSERT statements.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740972>

Question 557

Which statement correctly defines a vector object for holding integers?

- A) `int<vector> v;`
- B) `vector v<int>;`
- C) `int vector v;`
- D) `vector<int> v;`

Answer: <https://biology-forums.com/index.php?topic=741816>

Question 558

This member function writes a single character to a file.

- A) put
- B) insert
- C) get
- D) write
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742025>

Question 559

This is a volatile type of memory, used for temporary storage.

- A) ALU
- B) Address
- C) RAM
- D) Disk drive
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741486>

Question 560

NetBeans is a(n) _____.

Answer: <https://biology-forums.com/index.php?topic=740804>

Question 561

Which of the following is not a basic component of a database system?

- A) Database
- B) User
- C) ERD
- D) DBMS
- E) Data applications

Answer: <https://biology-forums.com/index.php?topic=740279>

Question 562

Market basket analysis, as described in the text, uses the statistical technique of _____.

Answer: <https://biology-forums.com/index.php?topic=741370>

Question 563

For the following code, which statement is not true?

```
class Point
{
private:
    double y;
    double z;
public:
    double x;
};
```

- A) x, y, and z are called members of the class.
- B) z is available to code that is written outside the class.
- C) x is available to code that is written outside the class.
- D) The name of the class is Point.

Answer: <https://biology-forums.com/index.php?topic=742067>

Question 564

Microsoft Access 2013 uses the Access 2003 .mdb file format as the default file format for database files.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740271>

Question 565

The C-string company[12] can hold _____.

- A) thirteen characters
- B) eleven characters and the null terminator
- C) twelve characters
- D) twelve characters and the null terminator
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741915>

Question 566

Stacks are useful data structures for algorithms that work _____ with the _____ saved element in the series.

- A) efficiently, last
- B) last, first
- C) first, last
- D) efficiently, first
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742259>

Question 567

In relational database design, ID-dependent entities are used to _____.

- A) represent 1:1 relationships
- B) represent 1:N relationships
- C) represent N:M relationships
- D) handle recursive relationships
- E) eliminate the need for weak entities being converted to tables.

Answer: <https://biology-forums.com/index.php?topic=740628>

Question 568

To determine whether a character is whitespace, use this function.

- A) isblank
- B) iswhite
- C) iswhitespace
- D) isspace

E) None of these

Answer: <https://biology-forums.com/index.php?topic=741921>

Question 569

The name of the SQL Server 2014 ODBC client as it appears in the ODBC Data Source Administrator is:

- A) SQL Server ODBC Client 2014.
- B) ODBC Driver 11 for SQL Server.
- C) SQL Server Native Client 2008.
- D) SQL Server Native Client 2008 R2.
- E) SQL Server Native Client 11.0.

Answer: <https://biology-forums.com/index.php?topic=740941>

Question 570

In database/ XML applications, it is a recommended practice that _____.

- A) elements carry data, and attributes carry metadata
- B) elements carry metadata, and attributes carry data
- C) elements and attributes carry data, and the XML Schema carry metadata
- D) elements and attributes carry metadata, and the XML Schema carry data
- E) either A or B

Answer: <https://biology-forums.com/index.php?topic=741437>

Question 571

The first step of the normalization process is to identify all the candidate keys of a relation.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740342>

Question 572

The basic idea of a join is to combine the contents of two or more relations into a new relation.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740436>

Question 573

_____ are used to translate each source code instruction into the appropriate machine language instruction.

- A) Modules
- B) Preprocessor directives
- C) Compilers
- D) Library routines
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741466>

Question 574

True/False: When recursion is used on a linked list, it will always display the contents of the list in reverse order.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742313>

Question 575

This is a control structure that causes a statement or group of statements to repeat.

- A) constant
- B) cout object
- C) decision statement
- D) loop
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741680>

Question 576

This data type can be used to create files and read information from them into memory.

- A) ifstream
- B) istream

- C) ofstream
- D) instream
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742016>

Question 577

Application programs are responsible for creating, maintaining, and supporting database backup and recovery systems.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740261>

Question 578

Basic Web pages are created using Hypertext Markup Language (HTML).

True or False?

Answer: <https://biology-forums.com/index.php?topic=740756>

Question 579

The Oracle Database ODBC Client is automatically installed when Oracle Database Express Edition 11g Release 2 is installed.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740974>

Question 580

Of the following, which is a valid C++ identifier?

- A) _employee_number
- B) June1997
- C) ___department
- D) myExtraLongVariableName
- E) All of the above are valid identifiers.

Answer: <https://biology-forums.com/index.php?topic=741513>

Question 581

SQL triggers can be used when the DBMS receives a(n) _____ request.

- A) INSERT
- B) UPDATE
- C) DELETE
- D) A and B
- E) A, B, and C

Answer: <https://biology-forums.com/index.php?topic=741119>

Question 582

True/False: The ios::hardfail bit is set when an unrecoverable error occurs.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742039>

Question 583

Most data mining techniques are simple and easy to use.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741308>

Question 584

True/False: A parameter is a special-purpose variable that is declared inside the parentheses of a function definition.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741770>

Question 585

To change a lower case character to an upper case character, use this function.

- A) ltou
- B) atoi

- C) toupper
- D) itoa
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741929>

Question 586

An important reason for using MySQL 5.6 Community Server Edition is that it has _____.

Answer: <https://biology-forums.com/index.php?topic=741056>

Question 587

In many-to-many relationships in a relational database design, _____.

- A) the intersection table is ID-dependent on one of the parents
- B) the intersection table is ID-dependent on both of the parents
- C) the minimum cardinality from the intersection table to the parents is always M
- D) A and B
- E) B and C

Answer: <https://biology-forums.com/index.php?topic=740627>

Question 588

For a workstation running the Windows operating system, the additional user file system permissions _____ must be granted to the Users group at the wwwroot folder.

- A) Read and Write
- B) Modify and Read
- C) Modify and Write
- D) Read and Execute
- E) None of the above is correct.

Answer: <https://biology-forums.com/index.php?topic=741265>

Question 589

How are 1:1, 1:N and N:M relationships handled in Microsoft Access?

Answer: <https://biology-forums.com/index.php?topic=740662>

Question 590

What will the following code display?

```
int number = 6;
number++;
cout << number << endl;
```

- A) 6
- B) 5
- C) 7
- D) 0

Answer: <https://biology-forums.com/index.php?topic=741693>

Question 591

Stored procedures have the advantage of _____.

- A) greater security
- B) decreased network traffic
- C) SQL optimized by the DBMS compiler
- D) code sharing
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741122>

Question 592

A _____ algorithm is a method of locating a specific item of information in a larger collection of data.

- A) linear
- B) standard
- C) search
- D) sort
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741839>

Question 593

Operational databases store historical data.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740834>

Question 594

Two-phase locking can be used to ensure that transactions are serializable.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740672>

Question 595

When using Oracle Database, a sequence is an object that generates a sequential series of unique numbers.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740967>

Question 596

In SQL, multiple conditions in the WHERE clause can be combined by using the SQL AND keyword.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740422>

Question 597

Which of the following is a task performed by the driver according to the ODBC standard?

- A) Determines the appropriate DBMS
- B) Validates the format of the ODBC command received from the application
- C) Converts data source error codes into ODBC standard error codes
- D) Verifies the application to the data source
- E) Converts the data source into an SQL-compliant data structure

Answer: <https://biology-forums.com/index.php?topic=740780>

Question 598

Referential integrity constraints must be enforced by the application program.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740260>

Question 599

True/False: There is no difference between declaring an object of an ordinary class and an object of a template class.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742199>

Question 600

What are the five steps or stages of the systems development life cycle (SDLC)?

Answer: <https://biology-forums.com/index.php?topic=741190>

Question 601

After a 1:1 relationship has been created between two tables in Microsoft Access, the Relationship Type of One-To-One appears in the _____.

Answer: <https://biology-forums.com/index.php?topic=740652>

Question 602

True/False: You cannot directly assign an enumerator to an int variable.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741997>

Question 603

SQL views can be used to layer _____.

Answer: <https://biology-forums.com/index.php?topic=741135>

Question 604

The name for a memory location that may hold data is:

- A) Operator
- B) Syntax
- C) Variable
- D) Key Word
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741477>

Question 605

Relational database tables are commonly combined, queried, and processed using Structured Query Language (SQL).

True or False?

Answer: <https://biology-forums.com/index.php?topic=740252>

Question 606

The constructor function always has the same name as _____.

- A) the first public data member
- B) the first private data member
- C) the class
- D) the first object of the class
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742060>

Question 607

This vector function is used to insert an item into a vector.

- A) add_item
- B) store
- C) push_back
- D) insert_item

Answer: <https://biology-forums.com/index.php?topic=741821>

Question 608

Which of the following is a common unsupervised data mining technique?

- A) Cluster analysis
- B) Regression analysis
- C) RFM analysis
- D) Both A and B
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741344>

Question 609

True/False: If the sub-expression on the left side of an && operator is false, the expression on the right side will not be checked.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741661>

Question 610

True/False: The amount of memory used by an array depends upon the array's data type and the number of elements in the array.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741825>

Question 611

A Business Intelligence (BI) reporting system that uses extensions to SQL is:

- A) cluster analysis.
- B) OLAP.
- C) regression analysis.
- D) RFM analysis.

E) All of the above

Answer: <https://biology-forums.com/index.php?topic=740855>

Question 612

What will the following code display?

```
int number = 6;
cout << number++ << endl;
```

- A) 6
- B) 5
- C) 7
- D) 0

Answer: <https://biology-forums.com/index.php?topic=741695>

Question 613

True/False: If you overload the prefix ++ operator, the postfix ++ operator is automatically overloaded.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742114>

Question 614

What will the following segment of code output?

Assume the user enters a grade of 90 from the keyboard.

```
cout << "Enter a test score: ";
cin >> test_score;
if (test_score < 60);
    cout << "You failed the test!" << endl;
if (test_score > 60)
    cout << "You passed the test!" << endl;
else
    cout << "You need to study for the next test!";
```

- A) You failed the test!
You did poorly on the test!
- B) You failed the test!
You passed the test!
- C) You passed the test!
- D) You failed the test!
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741619>

Question 615

In the following code, assume the myQueue object is a queue that can hold integers, and that value is an int variable. (The lines are numbered for reference purposes.)

```
1 myQueue.enqueue(0);
2 myQueue.enqueue(1);
3 myQueue.enqueue(2);
4 myQueue.dequeue(value);
5 myQueue.dequeue(value);
6 myQueue.dequeue(value);
7 cout << value << endl;
```

Assume that the dequeue function, called in lines 4, 5, and 6, stores the number removed from the queue in the value variable.

What will the statement in line 7 display?

- A) 0
- B) 1
- C) 2
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=742277>

Question 616

Which of the following SQL commands would be used to remove both the data and the table structure of a table named STUDENT?

- A) DROP TABLE STUDENT;
- B) DELETE TABLE STUDENT;

- C) REMOVE TABLE STUDENT;
- D) SELECT * FROM STUDENT THEN DROP;
- E) DELETE FROM STUDENT;

Answer: <https://biology-forums.com/index.php?topic=740469>

Question 617

The while loop is this type of loop.

- A) infinite
- B) post-test
- C) limited
- D) pre-test
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741668>

Question 618

With ODBC, only a single driver is needed to handle all data source types, such as SQL Server, Oracle Database, MySQL, and Microsoft Access. True or False?

Answer: <https://biology-forums.com/index.php?topic=740752>

Question 619

Microsoft Access SQL commands are run in the _____ of a Query window.

Answer: <https://biology-forums.com/index.php?topic=740490>

Question 620

This operator increments the value of its operand, then uses the value in context.

- A) prefix decrement
- B) prefix increment
- C) postfix decrement
- D) postfix increment
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741666>

Question 621

True/False: The condition that is tested by a while loop must be enclosed in parentheses and terminated with a semicolon.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741719>

Question 622

Explain minimum cardinality.

Answer: <https://biology-forums.com/index.php?topic=740576>

Question 623

In the following C++ statement, what will be executed first according to the order of precedence?

result = 6 - 3 * 2 + 7 - 10 / 2 ;

- A) 10 / 2
- B) 3 * 2
- C) 2 + 7
- D) 7 - 10
- E) 6 - 3

Answer: <https://biology-forums.com/index.php?topic=741575>

Question 624

The reports generated by a reporting system can be delivered in which of the following media?

- A) Paper
- B) Web portal
- C) Digital dashboard
- D) E-mail
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741340>

Question 625

To add a table to a database design, click the Place a New Table button, move the cursor to the diagram area and click the left mouse button.
True or False?

Answer: <https://biology-forums.com/index.php?topic=741022>

Question 626

True/False: Arithmetic operators that share the same precedence have right to left associativity.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741603>

Question 627

Microsoft Access 2013 generates surrogate key values when the _____ data type is used.

Answer: <https://biology-forums.com/index.php?topic=740310>

Question 628

MySQL Community Server 5.6 requires that the .NET Framework version 4.5.1 be installed.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741003>

Question 629

With optimistic locking, locks are first issued, then the transaction is processed, and then the locks are released.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740673>

Question 630

With ODBC, a file data source is available only to the user that created it.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740754>

Question 631

The term _____ means the ability to take many forms.

- A) polymorphism
- B) inheritance
- C) encapsulation
- D) member function
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742133>

Question 632

PHP was most recently ranked as the _____ most popular programming language.

- A) 3rd
- B) 4th
- C) 5th
- D) 6th
- E) 7th

Answer: <https://biology-forums.com/index.php?topic=741271>

Question 633

Which of the following is not included in Michael Porter's list of primary or operational activities?

- A) Procurement
- B) Inbound logistics
- C) Manufacturing operations
- D) Outbound logistics
- E) All of above are considered primary or operational activities.

Answer: <https://biology-forums.com/index.php?topic=741163>

Question 634

What will the following code display?

```
int numbers[4] = { 99, 87 };  
cout << numbers[3] << endl;
```

- A) 0
- B) 87
- C) garbage
- D) This code will not compile

Answer: <https://biology-forums.com/index.php?topic=741814>

Question 635

Database objects are displayed in the _____ window in the MySQL Workbench.

Answer: <https://biology-forums.com/index.php?topic=741059>

Question 636

One Business Intelligence (BI) reporting system that uses extensions to SQL is:

- A) cluster analysis.
- B) OLAP.
- C) regression analysis.
- D) RFM analysis.
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741322>

Question 637

Database designs are created during the component design step.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741158>

Question 638

True/False: The pop function in the stack template of the STL does not retrieve the value from the top of the stack.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742281>

Question 639

XML stands for Extensible Markup Language.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741387>

Question 640

What is the output of the following program?

```
#include <iostream>  
using namespace std;  
class TestClass  
{  
public:  
    TestClass(int x)  
    { cout << x << endl; }  
    TestClass()  
    { cout << "Hello!" << endl; }  
};  
int main()  
{  
    TestClass test(77);  
    return 0;  
}
```

- A) The program runs, but with no output.
- B) Hello!
- C) 77

D) The program will not compile.

Answer: <https://biology-forums.com/index.php?topic=742070>

Question 641

The purpose of a database is to help people keep track of things.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740243>

Question 642

The _____ is/are used to display information on the computer's screen.

- A) Opening and closing quotation marks
- B) Backslash
- C) Opening and closing braces
- D) cout object
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741508>

Question 643

As far as Microsoft Access is concerned, there are no N:M relationships.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740606>

Question 644

True/False: Like a loop, a recursive function must have some method to control the number of times it repeats.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742307>

Question 645

Associativity is either right to left or:

- A) Undeterminable
- B) Top to bottom
- C) Left to right
- D) Front to back
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741584>

Question 646

True/False: The first item placed onto a stack is always the last item removed from the stack.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742279>

Question 647

True/False: In C++ 11, you can use smart pointers to dynamically allocate memory and not worry about deleting the memory when you are finished using it.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741902>

Question 648

Column family databases that use column families and super column families contain keyspaces.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741409>

Question 649

What is the difference between authentication and authorization?

Answer: <https://biology-forums.com/index.php?topic=740735>

Question 650

One problem with storing duplicated data is the potential for inconsistent values.
True or False?

Answer: <https://biology-forums.com/index.php?topic=740247>

Question 651

Which statement opens a file and links it to a file stream object?

- A) `open(aFile) = link(anObject);`
- B) `linkstream("filename.txt");`
- C) `link(open(filename.txt));`
- D) `file.open("c:\\filename.txt");`
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742006>

Question 652

By default, the identifier of the entity becomes the foreign key of the corresponding table.
True or False?

Answer: <https://biology-forums.com/index.php?topic=740589>

Question 653

XML Web Services is a means for protecting and hiding elements of program functionality that otherwise would be available for misuse over the Web.
True or False?

Answer: <https://biology-forums.com/index.php?topic=740763>

Question 654

A variable whose value can be either true or false is of this data type.

- A) bool
- B) float
- C) binary
- D) T/F
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741532>

Question 655

The recovery method in which we undo the changes that erroneous or partially processed transactions have made in the database is called _____ recovery.

Answer: <https://biology-forums.com/index.php?topic=740721>

Question 656

Characters or symbols that perform operations on one or more operands are:

- A) Program ops
- B) Op codes
- C) Syntax
- D) Operators
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741462>

Question 657

The SQL GROUP BY keyword can be used to group rows by common values.
True or False?

Answer: <https://biology-forums.com/index.php?topic=740432>

Question 658

In Microsoft Access, foreign keys are designated by using the Foreign Key button in the toolbar.
True or False?

Answer: <https://biology-forums.com/index.php?topic=740349>

Question 659

The classic systems analysis methodology is called the Analysis Development Life Cycle (ADLC). True or False?

Answer: <https://biology-forums.com/index.php?topic=741154>

Question 660

The _____ of a linked list points to the first node in the list.

- A) head
- B) starter
- C) tail
- D) declaration
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742208>

Question 661

A function template prefix is placed before the function header. A class template prefix is placed _____.

- A) following the public: access specification
- B) before the class constructor function header
- C) before the class declaration
- D) following the private: access specification
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742190>

Question 662

A _____ is used to travel through a linked list and search for data.

- A) null pointer
- B) pointer
- C) node
- D) traversal operator
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742223>

Question 663

Explain the concept of a foreign key.

Answer: <https://biology-forums.com/index.php?topic=740403>

Question 664

Concurrent processing of a database only poses problems when two or more processes attempt to use the same data.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740668>

Question 665

When a file is opened, the file stream object's "read position" is _____.

- A) nonexistent, until the programmer declares it
- B) at the end of the file
- C) at the beginning of the file
- D) in the middle of the file
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742022>

Question 666

This type of list does not contain a null pointer at the end of the list.

- A) doubly-linked
- B) null-linked
- C) backwards-linked
- D) circular-linked
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742229>

Question 667

True/False: In a static stack class, the constructor function can dynamically allocate memory for the stack array.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742286>

Question 668

Michael Porter includes procurement in his list of _____ activities.

Answer: <https://biology-forums.com/index.php?topic=741177>

Question 669

True/False: The ios::out flag causes the file's existing contents to be deleted if the file already exists.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742029>

Question 670

Objects in an array are accessed with _____, just like any other data type in an array.

- A) parentheses
- B) output format manipulators
- C) subscripts
- D) #include statements
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742063>

Question 671

XML Schema is a synonym for Document Type Declaration (DTD).

True or False?

Answer: <https://biology-forums.com/index.php?topic=741398>

Question 672

An information system is a set of components that interact to achieve some purpose or goal.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741147>

Question 673

True/False: The string class's front and back member functions were introduced in C++ 11.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741948>

Question 674

The queue data structure is commonly applied in connection with:

- A) managing the order of print jobs
- B) operating systems
- C) communications software
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742251>

Question 675

True/False: When used by itself, the ios::app flag causes the file's existing contents to be deleted if the file already exists.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742032>

Question 676

One of the four categories of NoSQL databases used in the text is the Key-Value database.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741378>

Question 677

To allow file access in a program, you must #include this header file.

- A) file
- B) fstream
- C) cfile
- D) fileaccess

Answer: <https://biology-forums.com/index.php?topic=741699>

Question 678

True/False: You may not use the break and continue statements within the same set of nested loops.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741718>

Question 679

Table names are edited in the MySQL EER Component Editor.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741023>

Question 680

Sequences are most often used to provide values for surrogate keys.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740968>

Question 681

Describe how to create a new database in SQL Server 2014 Express.

Answer: <https://biology-forums.com/index.php?topic=740955>

Question 682

_____ to a base class may be assigned the address of a derived class object.

- A) Access specifiers
- B) Pointers
- C) Static members
- D) Private members
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742136>

Question 683

One of the four categories of NoSQL databases used in the text is the Word Processing database.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741379>

Question 684

Since surrogate keys are used to uniquely identify rows, their values are normally displayed prominently on all forms and reports for the users to see.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740334>

Question 685

True/False: If you do not follow a consistent programming style, your programs will generate compiler errors.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741562>

Question 686

In the following code, assume the myStack object is a stack that can hold integers, and that value is an int variable. (The lines are numbered for reference purposes.)

```
1 myStack.push(0);
2 myStack.push(1);
3 myStack.push(2);
4 myStack.pop(value);
5 cout << value << endl;
```

Assume that the pop function, called in line 4, stores the number popped from the stack in the value variable.

What will the statement in line 5 display?

- A) 0
- B) 1
- C) 2
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=742273>

Question 687

In a function template, the programmer substitutes _____ for _____.

- A) angle brackets, parentheses
- B) parameters, arguments
- C) parameters, data types
- D) arguments, parameters
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742172>

Question 688

A _____ list contains pointers to the nodes before it and after it.

- A) singly-linked
- B) doubly-linked
- C) circular-linked
- D) B and C
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742228>

Question 689

Explain the representation of a many-to-many strong entity relationship in a relational database design.

Answer: <https://biology-forums.com/index.php?topic=740658>

Question 690

True/False: An alternative to using the open member function is to use the file stream object declaration itself to open the file.

Example:

```
fstream DataFile("names.dat", ios::in | ios::out);
```

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742030>

Question 691

The Java JDK is installed directly from the Java download page at www.oracle.com.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741254>

Question 692

In Microsoft Visio 2013, when the Entity object is placed in a diagram, it is labeled as a(n):

- A) entity.
- B) table.
- C) relationship.
- D) dynamic connector.
- E) category.

Answer: <https://biology-forums.com/index.php?topic=741210>

Question 693

Describe how to create and run an SQL query in Oracle Database 11g Release 2 Express Edition.

Answer: <https://biology-forums.com/index.php?topic=741001>

Question 694

Describe the use of Microsoft Access as a prototyping tool.

Answer: <https://biology-forums.com/index.php?topic=740581>

Question 695

Information systems must be both _____ and _____ to help businesses reach their goals and objectives.

Answer: <https://biology-forums.com/index.php?topic=741175>

Question 696

A trigger is an event stored in a database that is invoked by the DBMS when specified events occur.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740739>

Question 697

_____ is commonly used to extend a class, or to give it additional capabilities.

- A) Privacy
- B) The destructor
- C) Inheritance
- D) The constructor
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742147>

Question 698

An example of a key-value database is _____.

- A) Dynamo
- B) Couchbase Server
- C) Bigtable
- D) Neo4j
- E) MySQL

Answer: <https://biology-forums.com/index.php?topic=741415>

Question 699

The term _____ refers to the capability of seeing the data in smaller and smaller units.

Answer: <https://biology-forums.com/index.php?topic=740897>

Question 700

In the following statement:

```
template <class T>
```

What does the word class indicate?

- A) You are deriving a class from an existing class called T.
- B) A class named T will automatically be created by the compiler.
- C) You are deriving a class called T from a class called template.
- D) class is a key word that is used to precede the type parameter T.
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742177>

Question 701

How many times will the following function call itself, if the value 5 is passed as the argument?

```
void showMessage(int n)
{
    if (n > 0)
    {
        cout << "Good day!" << endl;
        showMessage(n + 1);
    }
}
```

- A) 1
- B) 4
- C) 5
- D) An infinite number of times

Answer: <https://biology-forums.com/index.php?topic=742306>

Question 702

Microsoft Access 2013 switchboards are built using a Microsoft Access _____.

Answer: <https://biology-forums.com/index.php?topic=741238>

Question 703

_____ are descriptions of the ways users will employ the features and functions of the new information system.

Answer: <https://biology-forums.com/index.php?topic=740558>

Question 704

When a structure is passed _____ to a function, its members are not copied.

- A) by reference
- B) by value
- C) Neither of these

Answer: <https://biology-forums.com/index.php?topic=741953>

Question 705

SQL Server 2014 Express requires the prior or concurrent installation of:

- A) the .NET Framework version 2.0.
- B) the .NET Framework version 3.0.
- C) the .NET Framework version 4.0.
- D) the .NET Framework version 4.5.1.
- E) None of the above – the .NET Framework is not required.

Answer: <https://biology-forums.com/index.php?topic=740932>

Question 706

When you work with a dereferenced pointer, you are actually working with _____.

- A) a copy of the value pointed to by the pointer variable
- B) the actual value of the variable whose address is stored in the pointer variable
- C) a variable whose memory has been allocated
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741862>

Question 707

If data is transmitted faster than it can be processed, it can be held in a _____ for processing.

- A) static array
- B) stack
- C) static deque
- D) queue
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742270>

Question 708

Snowflake schemas have normalized:

- A) fact tables.
- B) dimension tables.
- C) map tables.
- D) reduce tables.
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=740867>

Question 709

Which of the following best describes an operator?

- A) An operator marks the beginning or ending of a statement, or is used to separate items in a list.
- B) An operator is a word that has a special meaning.
- C) An operator is a symbolic name that refers to a variable.
- D) An operator is a rule that must be followed when constructing a program.
- E) An operator allows you to perform operations on one or more pieces of data.

Answer: <https://biology-forums.com/index.php?topic=741457>

Question 710

The base class access specification determines how _____ members in the base class may be accessed by derived classes.

- A) protected
- B) private
- C) public
- D) A, B, and C
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742129>

Question 711

True/False: The constructor function may not accept arguments.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742074>

Question 712

In a dequeue operation, the element at the _____ of the queue is removed.

- A) middle
- B) mid-point
- C) declaration
- D) front
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742267>

Question 713

One of the important properties of an attribute is whether or not it is required.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740592>

Question 714

The term drill down means the user wants to:

- A) summarize data.
- B) get older data.
- C) sort data.
- D) get more details.
- E) aggregate data.

Answer: <https://biology-forums.com/index.php?topic=740869>

Question 715

Binary trees may be implemented as templates, but any data types used with them must support the _____ operator.

- A) >
- B) <
- C) ==
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742323>

Question 716

In terms of database security, a user can be assigned many roles, and a role can be assigned to many users.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740678>

Question 717

To be a well-formed relation, every _____ in the relation must be a candidate key.

Answer: <https://biology-forums.com/index.php?topic=740391>

Question 718

The default Web page for the IIS Web server is index.html.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741248>

Question 719

True/False: The fixed manipulator causes a number to be displayed in scientific notation.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741610>

Question 720

A recursive function is designed to terminate when it reaches its _____.

- A) base case
- B) return statement
- C) last parameter
- D) closing curly brace
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742300>

Question 721

A pointer variable may be initialized with _____.

- A) any non-zero integer value
- B) a valid address in the computer's memory
- C) an address less than 0
- D) A and C only
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741887>

Question 722

Data warehouses are populated with data prepared by Extract, Transform, and Load (ETL) systems.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741287>

Question 723

A(n) _____ is one or more columns of a relation that is used to identify a row.

Answer: <https://biology-forums.com/index.php?topic=740383>

Question 724

To access documentation at the MySQL Web site:

- A) use the Help | MySQL Workbench command.
- B) use the Help | Help Index command.
- C) use the Help | MySQL Website command.
- D) use the Help | MySQL.com Website command.
- E) go directly to the Web site <http://dev.mysql.com/doc>.

Answer: <https://biology-forums.com/index.php?topic=741038>

Question 725

In crow's foot style E-R diagrams, an entity class is represented by a(n) _____.

Answer: <https://biology-forums.com/index.php?topic=740563>

Question 726

Catch blocks serve as _____.

- A) temporary variables
- B) exception handlers
- C) permanent storage for trapped errors
- D) wide receivers
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742184>

Question 727

What is the NetBeans IDE?

Answer: <https://biology-forums.com/index.php?topic=741275>

Question 728

SQL triggers can be used when the DBMS receives an INSERT request.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741093>

Question 729

A(n) _____ is an information system that helps users analyze and use data.

Answer: <https://biology-forums.com/index.php?topic=740882>

Question 730

The Microsoft Access application generator adds the ability to create and store _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=740307>

Question 731

Which character signifies the beginning of an escape sequence?

- A) //
- B) #
- C) /
- D) {
- E) \

Answer: <https://biology-forums.com/index.php?topic=741524>

Question 732

When working with a binary tree, a node that has more than two children:

- A) will be cut back by the compiler
- B) is known as a triplet node
- C) is theoretically impossible in a correctly-developed binary tree structure
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=742324>

Question 733

What is "metadata," and how does it relate to the definition of a database?

Answer: <https://biology-forums.com/index.php?topic=740314>

Question 734

A Microsoft Access 2013 switchboard provides application menuing capabilities in Microsoft Access 2013.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741227>

Question 735

This describes only the general characteristics of an object.

- A) initiation
- B) initialization
- C) abstraction
- D) detailed specification
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741949>

Question 736

ODBC is an industry standard interface between programming code and DBMS APIs.
True or False?

Answer: <https://biology-forums.com/index.php?topic=740749>

Question 737

Polymorphism is when _____ in a class hierarchy perform differently, depending upon which object performs the call.

- A) base class constructors
- B) member functions
- C) derived class constructors
- D) derived class destructors
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742154>

Question 738

The _____ operation allows an item to be removed from a stack.

- A) remove
- B) pop
- C) delete
- D) push
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742262>

Question 739

It is possible for an entity to have a relationship to itself.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740519>

Question 740

Business Intelligence (BI) reporting systems can do which of the following operations?

- A) Filter data
- B) Group data
- C) Modify data
- D) Both A and B
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741321>

Question 741

Using SQL commands, multiple tables can be queried so that all the values from one table appear in the results, regardless of whether they have one or more corresponding values in the other table, by using the SQL _____ command.

Answer: <https://biology-forums.com/index.php?topic=740485>

Question 742

The null terminator stands for this ASCII code.

- A) 0
- B) 57
- C) 100
- D) 1000
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741907>

Question 743

To create an OLAP report for an Access 2013 database, we can build a PivotTable in:

- A) Microsoft Access 2013.
- B) Microsoft Word 2013.
- C) Microsoft Visio 2013.
- D) Microsoft Excel 2013.
- E) Microsoft PowerPoint 2013.

Answer: <https://biology-forums.com/index.php?topic=740876>

Question 744

The while loop contains an expression that is tested for a true or false value, and a statement or block that is repeated as long as the expression:

- A) does not evaluate to true or false
- B) evaluates to true or false
- C) is true
- D) is false
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741681>

Question 745

What statement best describes a variable and its primary purpose?

- A) A variable is a structured, general-purpose language designed primarily for teaching programming.
- B) A variable is a word that has a special meaning to the compiler.
- C) A variable is a named storage location in the computer's memory used for holding a piece of information.
- D) A variable is a "line" of code in the body of a program, which may change.
- E) A variable is a collection of eight bits.

Answer: <https://biology-forums.com/index.php?topic=741468>

Question 746

In the normalization process, it is not necessary to identify all the functional dependencies in a relation.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740343>

Question 747

Relations should always be normalized to the highest degree possible.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740583>

Question 748

To normalize a relation, the determinant of every functional dependency should be a(n) _____.

Answer: <https://biology-forums.com/index.php?topic=740644>

Question 749

The term DBA refers to the:

- A) database accessor.
- B) database auditor.
- C) data business auditor.
- D) database administrator.
- E) data business administrator.

Answer: <https://biology-forums.com/index.php?topic=740688>

Question 750

What is the output of the following code segment?

```
int x = 5;
if (x = 2)
    cout << "This is true!" << endl;
else
    cout << "This is false!" << endl;
    cout << "This is all folks!" << endl;
```

- A) This is false!
- B) This is true!
- C) This is true!
- This is false!
- D) This is true!
- This is all folks!
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741618>

Question 751

In crow's foot E-R notation, a circle indicates a minimum cardinality of zero.
True or False?

Answer: <https://biology-forums.com/index.php?topic=740523>

Question 752

True/False: The preprocessor executes after the compiler.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741499>

Question 753

In many-to-many relationships in a relational database design, _____.

- A) the key of the child is placed as a foreign key into the parent
- B) the key of the parent is placed as a foreign key into the child
- C) the keys of both tables are placed in a third table
- D) the keys of both tables are joined into a composite key
- E) C and D

Answer: <https://biology-forums.com/index.php?topic=740626>

Question 754

What are the elements of a graph database?

Answer: <https://biology-forums.com/index.php?topic=741455>

Question 755

An operation that can be performed on a binary search tree is:

- A) insertion
- B) deleting
- C) finding
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742333>

Question 756

This term means non-sequentially accessing information in a file.

- A) random access
- B) linear access
- C) incremented access
- D) protected access
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742026>

Question 757

What is the value of the following expression?

true && true

- A) true
- B) false
- C) -1
- D) +1

Answer: <https://biology-forums.com/index.php?topic=741648>

Question 758

For a Web server running the Linux operating system, the most commonly used Web server is IIS.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741245>

Question 759

True/False: All nodes to the right of a node hold values greater than the node's value.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742353>

Question 760

True/False: The isdigit function will return a true if its argument is a digit between 0 and 9.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741935>

Question 761

After trying to open a connection, a PHP connection to a DBMS needs to:

- A) open the connection.
- B) test the connection.
- C) query the database.
- D) process the query results.
- E) close the connection.

Answer: <https://biology-forums.com/index.php?topic=740783>

Question 762

How is maximum cardinality expressed in crow's foot E-R diagrams?

Answer: <https://biology-forums.com/index.php?topic=740578>

Question 763

Examples of access specifiers are the key words:

- A) near and far
- B) table and row
- C) opened and closed
- D) private and public
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742043>

Question 764

To open a new Microsoft Access Query window:

- A) click the New button on the Home command tab.
- B) click the New Query button on the Home command tab.
- C) click the Create Query button on the Create command tab.
- D) click the New Query in Design view button on the Create command tab.
- E) click the Query Design button on the Command tab.

Answer: <https://biology-forums.com/index.php?topic=740471>

Question 765

True/False: Structure variables may be passed as arguments to functions.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741982>

Question 766

The MySQL Workbench can be used to create:

- A) data models.
- B) data designs.
- C) database models.
- D) database designs.
- E) database diagrams.

Answer: <https://biology-forums.com/index.php?topic=741039>

Question 767

To overload the + operator, you would write a function named _____.

- A) function +

- B) operator.overload(+)
- C) overload +
- D) operator +
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742104>

Question 768

XSLT is a robust and powerful transformation language that can be used to materialize XML documents into HTML.
True or False?

Answer: <https://biology-forums.com/index.php?topic=741397>

Question 769

When a constructor function accepts no arguments, or does not have to accept arguments because of default arguments, it is called a(n) _____.

- A) stand-alone function
- B) default constructor
- C) empty constructor
- D) arbitrator function
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742051>

Question 770

Non-relational DBMSs associated with the NoSQL movement include:

- A) Key-Value.
- B) Document.
- C) Column Family.
- D) Graph.
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=740872>

Question 771

SQL stands for:

- A) Standard Query Language.
- B) Structural Question Language.
- C) Structured Query Language.
- D) Standard Question Language.
- E) Structured Question Language.

Answer: <https://biology-forums.com/index.php?topic=740277>

Question 772

A binary tree can be created using a struct or class containing a data value and _____.

- A) two data nodes
- B) two pointers, one for the left child and one for the right child
- C) a pointer to the first child node
- D) a pointer to the last child node
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742334>

Question 773

The TOP built-in function in SQL is used to find the maximum value in a numeric column.
True or False?

Answer: <https://biology-forums.com/index.php?topic=740430>

Question 774

True/False: C++ does not have a built in data type for storing strings of characters.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741561>

Question 775

_____ can be used to build prototype databases.

Answer: <https://biology-forums.com/index.php?topic=740566>

Question 776

Excel 2013 allows us to _____ to an Access 2013 database when building a PivotTable.

Answer: <https://biology-forums.com/index.php?topic=740905>

Question 777

Reports that rely on the most current data when they are prepared are called dynamic reports.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741300>

Question 778

What is a star schema?

Answer: <https://biology-forums.com/index.php?topic=740914>

Question 779

The SQL statement used to modify a view is:

- A) ALTER EXISTING VIEW ViewName AS.
- B) ALTER VIEW ViewName AS.
- C) DROP EXISTING VIEW ViewName.
- D) DROP VIEW ViewName.
- E) MODIFY VIEW ViewName AS.

Answer: <https://biology-forums.com/index.php?topic=741111>

Question 780

In Microsoft Visio 2013, we can create data models using:

- A) Entity and Dynamic connector objects.
- B) Entity and Relationship connector objects.
- C) Category and Dynamic connector objects.
- D) Category and Relationship connector objects.
- E) We cannot create data models in Microsoft Visio 2013.

Answer: <https://biology-forums.com/index.php?topic=741212>

Question 781

True/False: When the program knows the exact contents of a list and can access any element on demand, the data structure is known as a stacked deque.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742291>

Question 782

XML provides a standardized, non-customizable way to describe the content of a document.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740761>

Question 783

A table that meets the requirements of a relation is said to be in which normal form?

- A) Relational normal form (RNF)
- B) First normal form
- C) Second normal form
- D) Boyce-Codd normal form
- E) Domain/key normal form

Answer: <https://biology-forums.com/index.php?topic=740372>

Question 784

To format a PivotTable in Excel 2013, we use the:

- A) Design command tab in the PivotTable Tools contextual command tab.
- B) Format command tab in the PivotTable Tools contextual command tab.

- C) Design command tab in the Report Tools contextual command tab.
- D) Format command tab in the Report Tools contextual command tab.
- E) Report Tools command tab.

Answer: <https://biology-forums.com/index.php?topic=740880>

Question 785

Business Intelligence (BI) systems fall into two broad categories: _____ and _____.

Answer: <https://biology-forums.com/index.php?topic=740883>

Question 786

True/False: Pseudocode is a form of program statement that will always evaluate to "false."

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741496>

Question 787

The _____ is automatically appended to a character array when it is initialized with a string constant.

- A) number of elements
- B) value of the first element
- C) null terminator
- D) array name
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741806>

Question 788

Which of the following is true about XML?

- A) It allows the confounding of document structure, content, and format.
- B) It is non-standardized to allow for extension by developers.
- C) The structure of documents is formally defined.
- D) XML tags, like some HTML tags, are vague and arbitrary.
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741424>

Question 789

True/False: The number of comparisons made by a binary search is expressed in powers of two.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741853>

Question 790

If the head pointer points to nullptr, this indicates _____.

- A) the list needs to be destroyed
- B) there are no nodes in the list
- C) the list is full and cannot accept any new nodes
- D) the list has been previously created and then destroyed
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742211>

Question 791

If a is a structure variable and p, a pointer, is a member of the structure, what will the following statement do?

```
cout << *a.p;
```

- A) Output the address stored in p.
- B) Output the value stored in a.
- C) Result in a compiler error.
- D) Output the dereferenced value pointed to by p.
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741968>

Question 792

A composite primary key can be defined using the CONSTRAINT phrase in which SQL command?

- A) MODIFY TABLE
- B) CHANGE TABLE
- C) CREATE TABLE
- D) SET TABLE
- E) BUILD TABLE

Answer: <https://biology-forums.com/index.php?topic=740449>

Question 793

Microsoft Access 2013 uses _____ form and report editors.

Answer: <https://biology-forums.com/index.php?topic=740570>

Question 794

Which of the following SQL commands cannot be used with a trigger?

- A) INSERT
- B) SELECT
- C) UPDATE
- D) DELETE
- E) Both B and D

Answer: <https://biology-forums.com/index.php?topic=740770>

Question 795

The key of the parent entity becomes part of the key of an ID-dependent entity.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740585>

Question 796

To help prevent memory leaks from occurring in C++ 11, a _____ automatically deletes a chunk of dynamically allocated memory when the memory is no longer being used.

- A) null pointer
- B) smart pointer
- C) dereferenced pointer
- D) A and C only
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741893>

Question 797

Which of the following problems associated with storing data in a list is avoided by storing data in a relational database?

- A) Maintaining the data may require changing the same data value in many locations
- B) Inconsistency when a data item is used multiple times
- C) Inability to store partial data
- D) Duplication of data items
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=740274>

Question 798

Which line in the following program will cause a compiler error?

```
1 #include <iostream>
2 using namespace std;
3
4 int main()
5 {
6     const int MY_VAL;
7     MY_VAL = 77;
8     cout << MY_VAL << endl;
9     return 0;
10 }
```

- A) 6
- B) 9
- C) 8

D) 7

Answer: <https://biology-forums.com/index.php?topic=741597>

Question 799

Cluster analysis is a commonly used technique in supervised data mining.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741312>

Question 800

True/False: A linked list is called "linked" because each node in the series has a pointer that points to the next node in the list.

A) True

B) False

Answer: <https://biology-forums.com/index.php?topic=742231>

Question 801

If the Web server and the DBMS are running on the same server, the system has a three-tier architecture.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740748>

Question 802

Look at the following statement:

```
sum += *array++;
```

This statement _____.

A) increments the dereferenced pointer's value by one, then assigns that value

B) is illegal in C++

C) assigns the dereferenced pointer's value, then increments the pointer's address

D) will always result in a compiler error

E) None of these

Answer: <https://biology-forums.com/index.php?topic=741868>

Question 803

The reports generated by a reporting system can be classified as:

A) static.

B) dynamic.

C) fluid.

D) Both A and B

E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741338>

Question 804

Distributed databases can be distributed by partitioning and _____.

Answer: <https://biology-forums.com/index.php?topic=740899>

Question 805

Briefly describe the function of an application program in a database system.

Answer: <https://biology-forums.com/index.php?topic=740317>

Question 806

One definition of information is knowledge derived from data.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741146>

Question 807

The float data type is considered _____ precision, and the double data type is considered _____ precision.

A) float, double

B) integer, double

C) short, long

D) single, double

E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741531>

Question 808

Michael Porter includes manufacturing operations in his list of primary activities.
True or False?

Answer: <https://biology-forums.com/index.php?topic=741150>

Question 809

Business Intelligence (BI) systems do which of the following?

- A) Analyze current and past activities
- B) Predict future events
- C) Record and process transactions
- D) Both A and B
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741318>

Question 810

Object composition is useful for creating this type of relationship between classes.

- A) static
- B) conditional
- C) friend
- D) has a
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742106>

Question 811

The first step of database design is to define a table for each _____.

Answer: <https://biology-forums.com/index.php?topic=740641>

Question 812

What activities take place during the component design step of the systems development life cycle (SDLC)?

Answer: <https://biology-forums.com/index.php?topic=741191>

Question 813

What is a slowly changing dimension?

Answer: <https://biology-forums.com/index.php?topic=740913>

Question 814

_____ can be used as pointers.

- A) Numeric constants
- B) Punctuation marks
- C) Array names
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741863>

Question 815

This operator represents the logical AND.

- A) &&
- B) @
- C) ||
- D) ++
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741623>

Question 816

The _____ and _____ operators can be used to increment or decrement a pointer variable.

- A) addition, subtraction
- B) ++, --

- C) modulus, division
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741878>

Question 817

Users log into SQL Server 2014 Express using the Connect to Server dialog box.
True or False?

Answer: <https://biology-forums.com/index.php?topic=740924>

Question 818

Which of the following statements opens the file info.txt for both input and output?

- A) `dataFile.open("info.txt", input || output);`
- B) `dataFile.open("info.txt", ios::in , ios::out);`
- C) `dataFile.open("info.txt", ios::in | ios::out);`
- D) `dataFile.open("info.txt", ios::in && ios::out);`

Answer: <https://biology-forums.com/index.php?topic=742008>

Question 819

Which of the following statements about global variables is true?

- A) A global variable is accessible only to the main function.
- B) A global variable can have the same name as a variable that is declared locally within a function.
- C) A global variable is declared in the highest-level block in which it is used.
- D) If a function contains a local variable with the same name as a global variable, the global variable's name takes precedence within the function.
- E) All of these are true.

Answer: <https://biology-forums.com/index.php?topic=741745>

Question 820

When using Microsoft Access and IIS, the ODBC data source should be a system data source.
True or False?

Answer: <https://biology-forums.com/index.php?topic=740767>

Question 821

Use the database below to answer the following question.

GENERAL SALES DATABASE:

SALESREP

SalesRepNo RepName HireDate

654 Jones 01/02/1999

734 Smith 02/03/2000

345 Chen 01/25/1998

434 Johnson 11/23/1998

CUSTOMER

CustNo CustName Balance SalesRepNo

9870 Winston 500 345

8590 Gonzales 350 434

7840 Harris 800 654

4870 Miles 100 345

Given that a view named CustomerSalesRepView that displays the customer name as CustomerName and the associated sales rep name as SalesRepresentativeName has been created for the GENERAL SALES DATABASE, write the SQL code to use the view to display the customer name and associated sales rep name sorted by customer name.

Answer: <https://biology-forums.com/index.php?topic=741141>

Question 822

_____ algorithms are used to arrange random data into some order.

- A) Linear
- B) Binary search
- C) Standard search
- D) Sorting
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741851>

Question 823

Distinguish between an entity class and an entity instance.

Answer: <https://biology-forums.com/index.php?topic=740573>

Question 824

SQL statements can be run individually or as part of a related group of SQL statements known as a:

- A) Result.
- B) Resultset.
- C) Script.
- D) Scriptset.
- E) Commandset.

Answer: <https://biology-forums.com/index.php?topic=741034>

Question 825

Which is true about the following statement?

```
cout << setw(4) << num4 << " ";
```

- A) It inputs up to four characters stored in the variable num4.
- B) It outputs "setw(4)" before the value in the variable num4.
- C) It allows four spaces for the value in the variable num4.
- D) It should use setw(10) to output the value in the variable num10.
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741586>

Question 826

True/False: The this pointer is automatically passed to non-static member functions of a class.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742126>

Question 827

What are Business Intelligence (BI) systems?

Answer: <https://biology-forums.com/index.php?topic=741371>

Question 828

In Microsoft Access, tables are added to a QBE Query window by selecting the tables from the _____ dialog box.

Answer: <https://biology-forums.com/index.php?topic=740492>

Question 829

The classic systems analysis methodology is called the:

- A) Systems Development Life Cycle (SDLC).
- B) Analysis Development Life Cycle (ADLC).
- C) Component Development Life Cycle (CDLC).
- D) Information Development Life Cycle (IDLC).
- E) None of the above is correct.

Answer: <https://biology-forums.com/index.php?topic=741165>

Question 830

The first section of an XML document might be a _____.

- A) Document Definition Section (DDS)
- B) Document Type Declaration (DTD)
- C) Data Type (DTYPE)
- D) Document Type (DOCTYPE)
- E) Type Declaration (TYPEDECL)

Answer: <https://biology-forums.com/index.php?topic=741425>

Question 831

A variant of the star schema is the _____.

Answer: <https://biology-forums.com/index.php?topic=740892>

Question 832

Assuming you are using a system with 1-byte characters, how many bytes of memory will the following string literal occupy?
"William"

- A) 1
- B) 8
- C) 14
- D) 7

Answer: <https://biology-forums.com/index.php?topic=741550>

Question 833

Briefly describe the four components of a database system.

Answer: <https://biology-forums.com/index.php?topic=740312>

Question 834

In the Entity-Relationship data model, all instances of an entity of a given type are grouped into:

- A) entity objects.
- B) class objects.
- C) entity classes.
- D) identifiers.
- E) entity attributes.

Answer: <https://biology-forums.com/index.php?topic=740538>

Question 835

The _____ constructor is called before the _____ constructor.

- A) private, public
- B) derived, base
- C) public, private
- D) base, derived
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742131>

Question 836

In Microsoft Visio 2013, we can create data models using Entity and Relationship objects.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741200>

Question 837

What will the following code display?

```
cout << "Four\n" << "score\n";  
cout << "and" << "\nseven";  
cout << "\nyears" << " ago" << endl;
```

- A) Four score
and seven
years ago
- B) Four score and seven
years ago
- C) Four
score
and seven
years ago
- D) Four
score
and
seven
years ago

Answer: <https://biology-forums.com/index.php?topic=741543>

Question 838

All recursive relationships are 1:1.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740603>

Question 839

In the MySQL Workbench, a 1:N non-identifying relationship between two tables that do not contain the needed primary and foreign keys is created using:

- A) the 1:N Identifying Relationship button.
- B) the 1:N Non-identifying Relationship button.
- C) the N:M Identifying Relationship button.
- D) the Place a Relationship Using Existing Columns button.
- E) None of the above is correct.

Answer: <https://biology-forums.com/index.php?topic=741049>

Question 840

The Oracle Database FORMAT_DATE function can be used to make sure that Oracle Database interprets date data correctly.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740973>

Question 841

True/False: An array name is a pointer constant because the address stored in it cannot be changed during runtime.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741895>

Question 842

Refer to the table above. What is the confidence of Drug B being purchased given that Drug A has been purchased?

- A) .200
- B) .250
- C) .333
- D) .400
- E) .500

Answer: <https://biology-forums.com/index.php?topic=741351>

Question 843

This is a special built-in pointer that is available to a class's member functions.

- A) &constructor pointer
- B) ~destructor *ptr
- C) overloaded -> operator
- D) this pointer
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742105>

Question 844

A two-dimensional array can have elements of _____ data type(s).

- A) two
- B) four
- C) one
- D) Any of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741803>

Question 845

In the MapReduce process, the first step is the _____ step.

- A) column
- B) super column
- C) column family
- D) map
- E) reduce

Answer: <https://biology-forums.com/index.php?topic=740874>

Question 846

A business process is a set of activities that transforms materials into products.
True or False?

Answer: <https://biology-forums.com/index.php?topic=741151>

Question 847

A C++ class is similar to one of these.

- A) inline function
- B) library function
- C) header file
- D) structure
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742042>

Question 848

True/False: Stacks and queues can be implemented as arrays or linked lists.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742287>

Question 849

Which statement correctly uses C++ 11 to initialize a vector of ints named n with the values 10 and 20?

- A) `int vector n ({10}, {20});`
- B) `vector<int> n { 10, 20 };`
- C) `vector n<int>(10, 20);`
- D) `vector<int> n = {10, 20};`

Answer: <https://biology-forums.com/index.php?topic=741817>

Question 850

In the following function header:

```
FeetInches FeetInches::operator++(int)
```

the word (int) is known as a(n):

- A) incomplete parameter
- B) incomplete argument
- C) parameterless data type
- D) dummy parameter
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742110>

Question 851

What is the last legal subscript that can be used with the following array?

```
int values[5];
```

- A) 6
- B) 4
- C) 0
- D) 5

Answer: <https://biology-forums.com/index.php?topic=741810>

Question 852

The try block is immediately followed by one or more _____.

- A) throw blocks
- B) catch blocks
- C) errors
- D) error messages
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742183>

Question 853

In market basket analysis, lift is confidence divided by support.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741317>

Question 854

True/False: When using smart pointers to dynamically allocate objects in C++ 11, it is unnecessary to delete the dynamically allocated objects because the smart pointer will automatically delete them.

A) True

B) False

Answer: <https://biology-forums.com/index.php?topic=742086>

Question 855

A computer-based information system has four components.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741148>

Question 856

True/False: By default, files are opened in binary mode.

A) True

B) False

Answer: <https://biology-forums.com/index.php?topic=742034>

Question 857

Describe how to create and run an SQL script in SQL Server 2014 Express.

Answer: <https://biology-forums.com/index.php?topic=740957>

Question 858

Microsoft Access can be used to build a prototype database, which allows users:

A) to draw a crow's foot E-R diagram themselves.

B) to normalize the tables in the E-R diagram.

C) to validate the data model by demonstrating the consequences of data modeling decisions.

D) to determine the functional dependencies in the data model.

E) to determine the appropriate primary and foreign keys in the data model.

Answer: <https://biology-forums.com/index.php?topic=740551>

Question 859

In Microsoft Visio 2013, Dynamic connector objects can be formatted with the line end symbols needed to create IE Crow's Foot notation.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741202>

Question 860

In the general division of labor between database applications and the DBMS, the application program formats the results of a query into a report.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740265>

Question 861

What will the following code display?

```
int numbers[] = { 99, 87, 66, 55, 101 };
```

```
for (int i = 1; i < 4; i++)
```

```
    cout << numbers[i] << endl;
```

A) 87

66

55

B) 99

87

66

55

101

C) 87

66
55
101

D) Nothing. This code has an error.

Answer: <https://biology-forums.com/index.php?topic=741813>

Question 862

When Microsoft Access 2013 uses user-level security with an Access 2003 database file, it stores the database in a(n) _____ file.

Answer: <https://biology-forums.com/index.php?topic=740727>

Question 863

All node pointers that do not point to other nodes are set to:

- A) a parent node
- B) their left-most child node
- C) the root of the tree
- D) a null pointer
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742331>

Question 864

In supervised data mining, statistical techniques are used to estimate the parameters of the model.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741311>

Question 865

True/False: The try/catch/throw construct is able to handle only one type of exception in a try block.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742197>

Question 866

This statement may be used to stop a loop's current iteration and begin the next one.

- A) terminate
- B) continue
- C) return
- D) break
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741691>

Question 867

True/False: When you create a linked list, you must know in advance how many nodes the list will contain.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742237>

Question 868

A linked list class must take care of removing the dynamically allocated nodes. This is done by _____.

- A) overriding the removal function
- B) overloading the memory persistence operator
- C) the destructor function
- D) the constructor function
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742227>

Question 869

DBMSs associated with the NoSQL movement use _____ databases.

- A) Key-Value
- B) Document
- C) Column Family

- D) Graph
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741413>

Question 870

True/False: When a class declares an entire class as its friend, the friendship status is reciprocal. That is, each class's member functions have free access to the other's private members.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742111>

Question 871

This data type can be used to create files and write information to them but cannot be used to read information from them.

- A) ofstream
- B) ostream
- C) ifstream
- D) ofstream
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742004>

Question 872

What is the output of the following program?

```
#include <iostream>
using namespace std;
void doSomething(int);
int main()
{
    int x = 2;
    cout << x << endl;
    doSomething(x);
    cout << x << endl;
    return 0;
}
void doSomething(int num)
{
    num = 0;
    cout << num << endl;
}
```

- A) 2
0
0
- B) 0
0
0
- C) 2
2
2
- D) 2
0
2

Answer: <https://biology-forums.com/index.php?topic=741755>

Question 873

To create a new SQL query, click the New Query button.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741014>

Question 874

BI reporting systems summarize the current status of business activities and compare that status with past events but not with predicted future activities.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740827>

Question 875

SQL query results are displayed in a tabbed Resultset window.
True or False?

Answer: <https://biology-forums.com/index.php?topic=740931>

Question 876

The first step in transforming an extended E-R model into a relational database design is to _____.

- A) create a table for each relationship
- B) evaluate the entities against the normalization criteria
- C) create a table for each entity
- D) remove any recursive relationships
- E) document referential integrity constraints

Answer: <https://biology-forums.com/index.php?topic=740610>

Question 877

When this is placed in front of a variable name, it returns the address of that variable.

- A) ampersand (&)
- B) conditional operator
- C) asterisk (*)
- D) semicolon (;)
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741873>

Question 878

A _____ is a member function that is automatically called when a class object is _____.

- A) utility function, declared
- B) destructor, created
- C) static function, deallocated
- D) constructor, created
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742048>

Question 879

Built-in SQL functions cannot be applied to data combined using the GROUP BY keyword.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740433>

Question 880

The statement:

```
int *ptr = nullptr;
```

has the same meaning as _____.

- A) `int ptr* = nullptr;`
- B) `int* ptr = nullptr;`
- C) `int ptr = nullptr;`
- D) `*int ptr = nullptr;`
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741861>

Question 881

True/False: By being able to pass arrays as arguments, you can write your own functions for processing C-strings.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741939>

Question 882

Which line in the following program contains a call to the showDub function?

```
1 #include <iostream>
```

```
2 using namespace std;
3
4 void showDub(int);
5
6 int main()
7 {
8     int x = 2;
9
10    showDub(x);
11    cout << x << endl;
12    return 0;
13 }
14
15 void showDub(int num)
16 {
17     cout << (num * 2) << endl;
18 }
A) 4
B) 6
C) 10
D) 15
```

Answer: <https://biology-forums.com/index.php?topic=741759>

Question 883

How does Michael Porter define support business activities?

Answer: <https://biology-forums.com/index.php?topic=741189>

Question 884

SQL was developed by _____ in the late 1970s.

Answer: <https://biology-forums.com/index.php?topic=740477>

Question 885

DBMS objects are displayed:

- A) in the Navigator Pane.
- B) in the Object Browser.
- C) in the tabbed database window.
- D) in the tabbed document window.
- E) in the command tab.

Answer: <https://biology-forums.com/index.php?topic=741032>

Question 886

Data mining applications are used to accomplish which of the following tasks?

- A) Perform what-if analysis
- B) Make predications
- C) Facilitate decision making
- D) Both A and B
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741323>

Question 887

Which of the following is not true about null values?

- A) A null value can mean that the value is unknown.
- B) A null value is ambiguous.
- C) A null value can mean that the value is known to be blank.
- D) A null value can mean that no value for the field is appropriate.
- E) Null values cannot be avoided.

Answer: <https://biology-forums.com/index.php?topic=740367>

Question 888

A database is self-describing because the user maintains a record of the database structure outside the database itself.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740256>

Question 889

True/False: A private member function is useful for tasks that are internal to the class, but is not directly called by statements outside the class.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742081>

Question 890

The purpose of concurrency control is to:

- A) ensure that each form has a corresponding report.
- B) ensure that ASPs do not duplicate JSPs.
- C) ensure that one user's work does not interfere with another's.
- D) ensure that stored procedures do not invoke triggers.
- E) ensure that triggers do not invoke stored procedures.

Answer: <https://biology-forums.com/index.php?topic=740690>

Question 891

True/False: You must furnish an argument with a function call.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741776>

Question 892

SQL views can be used to display the results of computed columns.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741087>

Question 893

After a 1:1 relationship has been created between two tables in Microsoft Access, the Relationship Type of One-To-One appears:

- A) in the Relationship Type property of the primary key column in table Design View.
- B) in the Relationship Type property of the foreign key column in table Design View.
- C) in the table object in the Relationships window.
- D) in the Show Table dialog box.
- E) in the Edit Relationships dialog box.

Answer: <https://biology-forums.com/index.php?topic=740640>

Question 894

When function A calls function B, which in turn calls function A, this is known as:

- A) function swapping
- B) perfect recursion
- C) direct recursion
- D) indirect recursion
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742301>

Question 895

Business Intelligence (BI) reporting systems can analyze data using standard SQL.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741282>

Question 896

If the Web server and the DBMS are running on the different servers, the system has a(n) _____ architecture.

Answer: <https://biology-forums.com/index.php?topic=740800>

Question 897

In the snowflake schema, the _____ tables are normalized.

Answer: <https://biology-forums.com/index.php?topic=740893>

Question 898

The name of an array stores the _____ of the first array element.

- A) data type
- B) memory address
- C) value
- D) element number
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741787>

Question 899

What will the following code display?

```
int x = 0;
for (int count = 0; count < 3; count++)
    x += count;
cout << x << endl;
```

- A) 6
- B) 3
- C) 0
- D) 0
- 1
- 2

Answer: <https://biology-forums.com/index.php?topic=741707>

Question 900

In crow's foot style E-R diagrams, a single entity together with a related set of entities that each contain specific sets of attributes related to the single entity represent:

- A) a strong entity relationship.
- B) an ID-dependent weak entity relationship.
- C) a non-ID-dependent weak entity relationship.
- D) a supertype / subtype relationship.
- E) a recursive entity relationship.

Answer: <https://biology-forums.com/index.php?topic=740550>

Question 901

Business Intelligence (BI) systems obtain data in three different ways.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740824>

Question 902

Describe how to create and run an SQL script in Oracle Database Express Edition 11g Release 2.

Answer: <https://biology-forums.com/index.php?topic=741000>

Question 903

Database designs are created during the _____ step.

Answer: <https://biology-forums.com/index.php?topic=741185>

Question 904

True/False: A destructor function can have zero to many parameters.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742075>

Question 905

For a workstation running the Windows operating system, a commonly used Web browser is Microsoft Internet Explorer.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741249>

Question 906

To create a new MySQL Workbench EER model, you can use the New Model link on the Home page.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741020>

Question 907

Which of the following is not true about document type declarations for XML documents?

- A) They are not required.
- B) They are required for type-valid documents.
- C) They cannot be contained inside the XML document.
- D) Storing the DTD externally allows many documents to be validated against the same DTD.
- E) The DTD can be extended by the developer with any elements he or she wants to include.

Answer: <https://biology-forums.com/index.php?topic=741429>

Question 908

This function tells the cin object to skip one or more characters in the keyboard buffer.

- A) cin.skip;
- B) cin.jump
- C) cin.ignore
- D) cin.hop
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741571>

Question 909

A(n) _____ is a set of instructions that the computer follows to solve a problem.

- A) Linker
- B) Compiler
- C) Operator
- D) Program
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741465>

Question 910

SQL stands for _____.

Answer: <https://biology-forums.com/index.php?topic=740475>

Question 911

Which of the following would not be an example of database metadata?

- A) Names of tables in a database
- B) Properties of tables in a database
- C) Names of columns in a database and their associated tables
- D) Properties of columns
- E) Queries against records in the database tables

Answer: <https://biology-forums.com/index.php?topic=740282>

Question 912

The QuickSort algorithm works on the basis of

- A) three pivots
- B) three sublists
- C) two pivots and a sublist
- D) two sublists and a pivot
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742298>

Question 913

True/False: Using a function template requires less code than overloading a function.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742204>

Question 914

What is a surrogate key and how does Microsoft Access 2013 create surrogate keys?

Answer: <https://biology-forums.com/index.php?topic=740321>

Question 915

True/False: The increment and decrement operators can be used in mathematical expressions; however, they cannot be used in relational expressions.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741712>

Question 916

This may be used to write information to a file.

- A) output object
- B) cout object
- C) pen object
- D) stream insertion operator
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741701>

Question 917

When using the sqrt function you must include this header file.

- A) iostream
- B) cmath
- C) cstring
- D) iomanip
- E) cstdlib

Answer: <https://biology-forums.com/index.php?topic=741589>

Question 918

Although Microsoft Access is a personal database, the database tables in Access are still subject to _____ if they are not well-formed.

Answer: <https://biology-forums.com/index.php?topic=740393>

Question 919

What does the following statement do?

- ```
double *num2;
```
- A) Declares and initializes a pointer variable named num2.
  - B) Initializes a variable named \*num2.
  - C) Declares a double variable named num2.
  - D) Declares a pointer variable named num2.
  - E) None of these

Answer: <https://biology-forums.com/index.php?topic=741866>

### Question 920

The default file format for Microsoft Access 2013 database files is the:

- A) Access 2007 format.
- B) Access 2003 format.
- C) Access XP format.
- D) SQL Server format.
- E) XBD format.

Answer: <https://biology-forums.com/index.php?topic=740294>

### Question 921

Recursion can be used to:

- A) traverse linked lists
- B) find GCD's
- C) compute factorials
- D) All of these

E) None of these

Answer: <https://biology-forums.com/index.php?topic=742294>

### Question 922

Which of the following is not one of the five SQL built-in functions?

- A) MODE
- B) SUM
- C) COUNT
- D) MAX
- E) AVG

Answer: <https://biology-forums.com/index.php?topic=740461>

### Question 923

A doubly-linked list keeps track of the next node in the list, as well as:

- A) the tail node
- B) itself
- C) the previous node
- D) the head node
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742214>

### Question 924

To get data after opening a connection, a PHP program needs to:

- A) open the connection.
- B) test the connection.
- C) query the database.
- D) process the query results.
- E) close the connection.

Answer: <https://biology-forums.com/index.php?topic=740784>

### Question 925

The Microsoft Access 2013 form editor is a(n):

- A) banded form editor.
- B) wizard-based form editor.
- C) ASCII form editor.
- D) WYSIWYG form editor.
- E) Web-based form editor.

Answer: <https://biology-forums.com/index.php?topic=740554>

### Question 926

The name of the structure is referred to as its \_\_\_\_\_.

- A) tag
- B) data type
- C) parameter
- D) argument
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741963>

### Question 927

SQL Server DBMS objects are displayed:

- A) in the Navigation Pane.
- B) in the Object Explorer.
- C) in the tabbed database window.
- D) in the tabbed document window.
- E) in the command tab.

Answer: <https://biology-forums.com/index.php?topic=740935>

### Question 928

Functions are ideal for use in menu-driven programs. When a user selects a menu item, the program can \_\_\_\_\_ the appropriate function.

- A) prototype

- B) declare
- C) define
- D) call
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741733>

### Question 929

Multiple inheritance opens the opportunity for a derived class to have \_\_\_\_\_ members.

- A) dynamic
- B) ambiguous
- C) public
- D) private
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742139>

### Question 930

Databases are created in a DBMS during the \_\_\_\_\_ step of the SDLC.

- A) system definition
- B) requirements analysis
- C) component design
- D) implementation
- E) systems maintenance

Answer: <https://biology-forums.com/index.php?topic=741170>

### Question 931

Transactions should be written to the log before they are applied to the database itself.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740682>

### Question 932

Microsoft Access is considered a "personal database" product. What is a personal database?

Answer: <https://biology-forums.com/index.php?topic=740319>

### Question 933

This operator takes an operand and reverses its truth or falsehood.

- A) arithmetic
- B) relational
- C) ||
- D) !
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741624>

### Question 934

ofstream, ifstream, and fstream are:

- A) header files
- B) libraries
- C) string arrays
- D) data types
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742015>

### Question 935

A key must be unique.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740327>

### Question 936

What is the output of the following program?

```
#include <iostream>
```

```
using namespace std;
void showDub(int);
int main()
{
 int x = 2;
 showDub(x);
 cout << x << endl;
 return 0;
}
void showDub(int num)
{
 cout << (num * 2) << endl;
}
```

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

Answer: <https://biology-forums.com/index.php?topic=741754>

### Question 937

Which of the following is not true of recursive relationships?

- A) When the recursive relationship is M:N, an intersection table is created.
- B) The rows of a single table can play two different roles.
- C) The techniques for representing the tables are the same as for non-recursive relationships except the rows are in the same table.
- D) Recursive relationships can be 1:1, 1:N, or M:N relationships.
- E) Even when the relationship is 1:N, a new table must be defined to represent the relationship.

Answer: <https://biology-forums.com/index.php?topic=740635>

### Question 938

True/False: A preprocessor directive does not require a semicolon at the end.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741556>

### Question 939

In Microsoft Access, referential integrity constraints are created:

- A) by setting a property value on the primary key in the table which contains it.
- B) by setting a property value on the foreign key in the table which contains it.
- C) by setting a property value on the primary key in the Relationships window.
- D) by setting a property value on the foreign key in the Relationships window.
- E) by checking the Enforce Referential Integrity check box in the Edit Relationships dialog box.

Answer: <https://biology-forums.com/index.php?topic=740381>

### Question 940

SQL query results are displayed:

- A) in a tabbed results window.
- B) in a tabbed Results1 window.
- C) in a tabbed Document window.
- D) in a tabbed Messages window.
- E) in a tabbed Finished window.

Answer: <https://biology-forums.com/index.php?topic=741036>

### Question 941

How many times will the following function call itself, if the value 5 is passed as the argument?

```
void showMessage(int n)
{
 if (n > 0)
```

```
{
 cout << "Good day!" << endl;
 showMessage(n - 1);
}
}
```

- A) 1
- B) 4
- C) 5
- D) An infinite number of times

Answer: <https://biology-forums.com/index.php?topic=742305>

### Question 942

Star schemas have a \_\_\_\_\_ at the center of the star.

- A) fact table
- B) dimension table
- C) map table
- D) reduce table
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=740866>

### Question 943

When a relational expression is false, it has the value \_\_\_\_\_.

- A) zero, one, or minus one
- B) less than zero
- C) one
- D) zero
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741616>

### Question 944

Reports that rely on the most current data when they are prepared are called \_\_\_\_\_ reports.

Answer: <https://biology-forums.com/index.php?topic=741367>

### Question 945

True/False: One reason for using functions is to break programs into manageable units, or modules.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741775>

### Question 946

Assuming dataFile is a file stream object, the statement:

- ```
dataFile.close();
```
- A) needs a filename argument to execute correctly
 - B) closes a file
 - C) is illegal in C++
 - D) is legal but risks losing valuable data
 - E) None of these

Answer: <https://biology-forums.com/index.php?topic=741705>

Question 947

In practice, why would tables that have duplicate rows be allowed?

Answer: <https://biology-forums.com/index.php?topic=740400>

Question 948

MySQL _____ (version) Community Server Edition was generally available when this text was written.

Answer: <https://biology-forums.com/index.php?topic=741052>

Question 949

XML stands for:

- A) Experimental Markup Language.
- B) Existential Markup Language.
- C) Extendable Markup Language.
- D) Extensible Markup Language.
- E) Extensible Marketing Language.

Answer: <https://biology-forums.com/index.php?topic=740787>

Question 950

This operator performs a logical NOT operation.

- A) --
- B) <>
- C) !
- D) ><
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741639>

Question 951

Discuss SQL data types.

Answer: <https://biology-forums.com/index.php?topic=740497>

Question 952

True/False: Output will be the same if you use inorder, postorder, or preorder traversals of the same binary tree.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742344>

Question 953

In certain circumstances, there may be a preference as to which table in a 1:1 relationship contains the foreign key.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740596>

Question 954

True/False: When an object is defined without an argument list for its constructor, the compiler automatically calls the object's default constructor.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742083>

Question 955

An ACID transaction is one that is:

- A) atomic.
- B) consistent.
- C) isolated.
- D) durable.
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=740698>

Question 956

Which of the following would be a reason to denormalize a relation?

- A) Relax security
- B) Lack of design time
- C) End user preference
- D) Improve performance
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=740618>

Question 957

An advantage of keeping data in lists is that if you add a new row of data to the list, you will never have null values occurring for any data item in the row.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740246>

Question 958

True/False: Deleting a leaf node from a binary tree is not difficult. Deleting a non-leaf node requires several steps.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742347>

Question 959

The recovery technique in which the database is returned to a known state and then all valid transactions are reapplied to the database is known as:

- A) reprocessing.
- B) rollback.
- C) transaction logging.
- D) rollforward.
- E) checkpointing.

Answer: <https://biology-forums.com/index.php?topic=740704>

Question 960

Assume that a program has the following variable definition:

```
char letter;
```

Which of the following statements correctly assigns the character Z to the variable?

- A) letter = 'Z';
- B) letter = (Z);
- C) letter = "Z";
- D) letter = Z;

Answer: <https://biology-forums.com/index.php?topic=741546>

Question 961

Programmer-defined names of memory locations that may hold data are:

- A) Operands
- B) Operators
- C) Syntax
- D) Variables
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741461>

Question 962

After the following statement executes, what value is stored in the variable num?

```
num = atoi("1000");
```

- A) "1000"
- B) 1000
- C) 999 (1000 minus 1 for the null terminator)
- D) "thousand"
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741928>

Question 963

Apache Cassandra is an example of a column family database.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740843>

Question 964

The term for the enormous datasets generated by Web 2.0 applications is _____.

Answer: <https://biology-forums.com/index.php?topic=740881>

Question 965

Microsoft Access 2013 provides application menuing capabilities by means of a(n) _____.

Answer: <https://biology-forums.com/index.php?topic=741237>

Question 966

SOAP was originally an XML-based standard for providing remote procedure calls over the Internet.
True or False?

Answer: <https://biology-forums.com/index.php?topic=741391>

Question 967

The key-value database uses columns.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741385>

Question 968

The destructor function's return type is _____.

- A) int
- B) float
- C) tilde
- D) Nothing. Destructors have no return type.
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=742050>

Question 969

This statement causes a function to end.

- A) return
- B) release
- C) end
- D) terminate
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741738>

Question 970

To set up a file to perform file I/O, you must declare:

- A) a string object to store the file contents
- B) one or more file stream objects
- C) at least one variable, the contents of which will be written to the file
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742014>

Question 971

A class is a(n) _____ that is defined by the programmer.

- A) method
- B) attribute
- C) data type
- D) function
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742055>

Question 972

Describe how to set table properties in a MySQL Workbench database design.

Answer: <https://biology-forums.com/index.php?topic=741073>

Question 973

Given only the following excerpt of an E-R model:

Which of the following is known to be true?

- A) A single instance of ENTITY A must be related to one instance of ENTITY B.
- B) Many instances of ENTITY A may be related to one instance of ENTITY B.
- C) ENTITY B has a degree of many.
- D) ENTITY B is a weak entity.
- E) Both A and C are true.

Answer: <https://biology-forums.com/index.php?topic=740542>

Question 974

EXIT_FAILURE and _____ are named constants that may be used to indicate success or failure when the exit() function is called.

- A) EXIT_TERMINATE
- B) EXIT_OK
- C) EXIT_SUCCESS
- D) RETURN_OK
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741751>

Question 975

Which line in the following program contains the header for the showDub function?

```
1 #include <iostream>
2 using namespace std;
3
4 void showDub(int);
5
6 int main()
7 {
8     int x = 2;
9
10    showDub(x);
11    cout << x << endl;
12    return 0;
13 }
14
15 void showDub(int num)
16 {
17     cout << (num * 2) << endl;
18 }
```

- A) 4
- B) 6
- C) 10
- D) 15

Answer: <https://biology-forums.com/index.php?topic=741758>

Question 976

SQL is a data sublanguage, not a complete programming language.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740410>

Question 977

True/False: A static member function does not need to be called by a specific object of the class.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742120>

Question 978

True/False: If you want to know the length of the string that is stored in a string object, you can call the object's size member function.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741602>

Question 979

The intermediary between the application and the DBMS drivers in the ODBC architecture is the:

- A) driver manager.
- B) OLE DB interface.
- C) ODBC driver.
- D) data source.

E) database connector.

Answer: <https://biology-forums.com/index.php?topic=740779>

Question 980

True/False: When data is read from a file, it is automatically stored in a variable.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742033>

Question 981

With an enumerated data type, the enumerators are stored in memory as _____.

- A) integers
- B) doubles
- C) strings
- D) characters

Answer: <https://biology-forums.com/index.php?topic=741975>

Question 982

Every DBMS product has an API, which stands for:

- A) All Program Interpreter.
- B) All Program Interface.
- C) Application Programming Interpreter.
- D) Application Programming Interface.
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=740772>

Question 983

In unsupervised data mining, explanations are created after patterns are found.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741309>

Question 984

The following statement:

```
cin >> *num3;
```

- A) stores the keyboard input into the pointer called num3
- B) stores the keyboard input into the variable num3
- C) stores the keyboard input into the variable pointed to by num3
- D) is illegal in C++
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741881>

Question 985

Although users use database systems, they are not considered part of a database system.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740253>

Question 986

The _____ causes a program to wait until information is typed at the keyboard and the Enter key is pressed.

- A) Output stream
- B) cin object
- C) Preprocessor
- D) cout object
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741565>

Question 987

In a common form of RFM analysis, customers with an F score of _____ are in the 20% of customers who have the most frequent orders.

Answer: <https://biology-forums.com/index.php?topic=741366>

Question 988

XML documents that conform to their DTD are said to be _____.

- A) DTD-valid
- B) XML-valid
- C) DTD-compliant
- D) not-type-valid
- E) type-valid

Answer: <https://biology-forums.com/index.php?topic=741427>

Question 989

In Microsoft Access, the default method of creating and running a query is _____.

Answer: <https://biology-forums.com/index.php?topic=740491>

Question 990

True/False: The C++ language requires that you give variables names that indicate what the variables are used for.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741557>

Question 991

What is the value of donuts after the following code executes?

```
int donuts = 10;
```

```
if (donuts = 1)
    donuts = 0;
else
    donuts += 2;
```

- A) 0
- B) 10
- C) 12
- D) 1

Answer: <https://biology-forums.com/index.php?topic=741646>

Question 992

What will the following code display?

```
cout << "Four " << "score ";
cout << "and " << "seven/n";
cout << "years" << "ago" << endl;
```

- A) Four
score
and
seven
yearsago
- B) Four score and seven/nyearsago
- C) Four score and seven
yearsago
- D) Four score and seven
years ago

Answer: <https://biology-forums.com/index.php?topic=741544>

Question 993

Which statement will read an entire line of input into the following string object?

```
string address;
```

- A) getline(cin, address);
- B) cin.get(address);
- C) cin << address;
- D) cin address;
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741583>

Question 994

What are XML Web Services?

Answer: <https://biology-forums.com/index.php?topic=740819>

Question 995

Explain the process of representing an entity using the relational model.

Answer: <https://biology-forums.com/index.php?topic=740653>

Question 996

The CAP theorem defines the three properties, one of which is consistency.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741382>

Question 997

True/False: Pointers to a base class may be assigned the address of a derived class object.

A) True

B) False

Answer: <https://biology-forums.com/index.php?topic=742164>

Question 998

True/False: The binary tree structure is called a "tree" because it resembles an upside-down tree.

A) True

B) False

Answer: <https://biology-forums.com/index.php?topic=742341>

Question 999

The values of existing data can be removed from a table using the SQL _____ command, which can even be used to remove all the data in the table at one time.

Answer: <https://biology-forums.com/index.php?topic=740488>

Question 1000

Which of the following is a valid C++ array definition?

A) int array[0];

B) float \$payments[10];

C) int array[10];

D) void numbers[5];

E) None of these

Answer: <https://biology-forums.com/index.php?topic=741784>

Question 1001

A(n) _____ can be used to specify the starting values of an array.

A) initialization list

B) subscript

C) array name

D) element

E) None of these

Answer: <https://biology-forums.com/index.php?topic=741805>

Question 1002

Which of the following is the correct SQL clause to restrict the results of a SELECT query to only records that have a value in the range of 10 to 50 in the Hours column?

A) WHERE Hours = MIN(10) and MAX(50)

B) WHERE Hours IN [10, 50]

C) WHERE Hours = 10 and Hours = 50

D) WHERE Hours BETWEEN 10 AND 50

E) WHERE Hours RANGE 10 TO 50

Answer: <https://biology-forums.com/index.php?topic=740456>

Question 1003

Database administrators must make sure that _____ and _____ techniques and procedures are operating to protect the database in case of failure and to recover it as quickly and accurately as possible when necessary.

Answer: <https://biology-forums.com/index.php?topic=740716>

Question 1004

When the root node points to two other nodes, the nodes are referred to as _____.

- A) subnodes
- B) binary nodes
- C) child nodes, or children
- D) parent nodes, or parents
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742330>

Question 1005

Explain the representation of a one-to-many strong entity relationship in a relational database design.

Answer: <https://biology-forums.com/index.php?topic=740657>

Question 1006

What is the value of the following expression?

true && false

- A) true
- B) false
- C) -1
- D) +1

Answer: <https://biology-forums.com/index.php?topic=741647>

Question 1007

What are the four transaction isolation levels?

Answer: <https://biology-forums.com/index.php?topic=740734>

Question 1008

True/False: When a programmer creates an abstract data type, he or she can decide what values are acceptable for the data type, as well as what operations may be performed on the data type.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741988>

Question 1009

The first step of the normalization process is to:

- A) identify all the candidate keys of a relation.
- B) identify all the foreign keys of a relation.
- C) identify all the functional dependencies of a relation.
- D) identify all the determinants of a relation.
- E) split the relation into two or more new relations.

Answer: <https://biology-forums.com/index.php?topic=740373>

Question 1010

When using Microsoft Access and IIS, a good basic ASCII text editor for producing HTML is FrontPage.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740765>

Question 1011

One of the four categories of NoSQL databases used in the text is the Graphical database.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741381>

Question 1012

In market basket analysis, confidence is the probability that one particular product will be purchased.
True or False?

Answer: <https://biology-forums.com/index.php?topic=741316>

Question 1013

Graph databases are composed of three elements, one of which is the edge.
True or False?

Answer: <https://biology-forums.com/index.php?topic=741412>

Question 1014

What are objects, and how are they related to the object-oriented DBMS (OODBMS)?

Answer: <https://biology-forums.com/index.php?topic=740917>

Question 1015

True/False: The this pointer is a special built-in pointer that is automatically passed as a hidden argument to all non-static member functions.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742123>

Question 1016

ADT stands for:

- A) Algorithm Driven Template
- B) Abstract Data Type
- C) Algorithm Dependent Template
- D) Automatic Data Type
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742206>

Question 1017

SQL views can be used to hide complicated SQL syntax.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741088>

Question 1018

True/False: Although two-dimensional arrays are a novel idea, there is no known way to pass one to a function.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741835>

Question 1019

Big Data is the name given to the enormous datasets generated by Web 2.0 applications.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740821>

Question 1020

This is a pre-test loop that is ideal in situations where you do not want the loop to iterate if the condition is false from the beginning.

- A) do-while
- B) infinite
- C) while
- D) for
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741688>

Question 1021

What is the CAP theorem, and what does it show?

Answer: <https://biology-forums.com/index.php?topic=741452>

Question 1022

In Microsoft Visio 2013, we can create supertype/subtype relationships in database designs using:

- A) Entity and Dynamic connector objects.
- B) Entity and Relationship connector objects.
- C) Category and Dynamic connector objects.
- D) Category and Relationship connector objects.
- E) We cannot create database designs in Microsoft Visio 2013.

Answer: <https://biology-forums.com/index.php?topic=741215>

Question 1023

True/False: When you overload an operator, you can change the operator's original meaning to something entirely different.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742113>

Question 1024

What is the output of the following program?

```
#include <iostream>
using namespace std;
class TestClass
{
private:
    int val;
    void showVal()
    { cout << val << endl; }
public:
    TestClass(int x)
    { val = x; }
};
int main()
{
    TestClass test(77);
    test.showVal();
    return 0;
}
```

- A) The program runs, but with no output.
- B) 0
- C) 77
- D) The program will not compile.

Answer: <https://biology-forums.com/index.php?topic=742071>

Question 1025

The function, `pow(x, 5.0)`, requires this header file.

- A) `ioomanip`
- B) `cstring`
- C) `cmath`
- D) `cstdlib`
- E) `iostream`

Answer: <https://biology-forums.com/index.php?topic=741572>

Question 1026

In Microsoft Visio 2013, we can create database designs using Entity and Dynamic connector objects.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741201>

Question 1027

A dashed line between entities indicates:

- A) a unique identifier.
- B) a minimum cardinality of zero.

- C) a minimum cardinality of one.
- D) an identifying relationship.
- E) a nonidentifying relationship.

Answer: <https://biology-forums.com/index.php?topic=740545>

Question 1028

Which data type typically requires only one byte of storage?

- A) double
- B) char
- C) int
- D) short
- E) float

Answer: <https://biology-forums.com/index.php?topic=741520>

Question 1029

This operator is known as the logical OR operator.

- A) //
- B) ||
- C) #
- D) --
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741638>

Question 1030

This manipulator causes the field to be left-justified with padding spaces printed to the right.

- A) left
- B) left_justify
- C) left_pad
- D) right
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741579>

Question 1031

True/False: The base class access specification can be viewed as a filter that base class members must pass through when becoming inherited members of a derived class.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742160>

Question 1032

A new MySQL database is created using the New Database dialog box.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741011>

Question 1033

A database is a set of one or more computer programs that serves as an intermediary between the users and the database management system (DBMS).

True or False?

Answer: <https://biology-forums.com/index.php?topic=740254>

Question 1034

When distributed databases create copies of the database on different servers, this is known as:

- A) replication.
- B) partitioning.
- C) disbursing.
- D) distributed two-phase locking.
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=740871>

Question 1035

One way to prevent concurrent processing problems is to lock data that are retrieved for update.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740670>

Question 1036

True/False: When a function is called, flow of control moves to the function's prototype.

A) True

B) False

Answer: <https://biology-forums.com/index.php?topic=741765>

Question 1037

Relationships that are 1:1 do not require referential integrity constraints.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740595>

Question 1038

Even when using Microsoft Access and IIS, we should still use a basic Web home page named _____.

Answer: <https://biology-forums.com/index.php?topic=740805>

Question 1039

XML designers created a system that allows document structure, data content, and materialization to be mixed.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741392>

Question 1040

True/False: When writing long integer literals or long long integer literals in C++ 11, you can use either an uppercase or lowercase L.

A) True

B) False

Answer: <https://biology-forums.com/index.php?topic=741563>

Question 1041

True/False: The CPU is the most important component in a computer because without it, the computer could not run software.

A) True

B) False

Answer: <https://biology-forums.com/index.php?topic=741503>

Question 1042

To represent a many-to-many relationship in the relational model, a(n) _____ table is used.

Answer: <https://biology-forums.com/index.php?topic=740645>

Question 1043

Unlike SQL views, XML views are not limited to one multivalued path.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741390>

Question 1044

Microsoft Access 2013 database files can be easily copied to create multiple copies of a database.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740529>

Question 1045

Database objects are displayed in the _____ window in the SQL Server Management Studio.

Answer: <https://biology-forums.com/index.php?topic=740946>

Question 1046

A loop that is inside another loop is called:

- A) a pre-test loop
- B) a nested loop
- C) a post-test loop
- D) an infinite loop
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741675>

Question 1047

True/False: When C++ is working with an operator, it strives to convert the operands to the same type.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741606>

Question 1048

A computer-based information system has _____ components.

Answer: <https://biology-forums.com/index.php?topic=741174>

Question 1049

A _____ of a base class expects to be overridden in a derived class.

- A) destructor function
- B) virtual function
- C) static function
- D) constructor function
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742132>

Question 1050

In the MySQL Table Editor, the abbreviation for AUTO_INCREMENT is:

- A) PK
- B) NN
- C) UQ
- D) BIN
- E) AI

Answer: <https://biology-forums.com/index.php?topic=741047>

Question 1051

Every byte in the computer's memory is assigned a unique _____.

- A) pointer
- B) dynamic allocation
- C) address
- D) name
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741885>

Question 1052

When transforming an E-R data model into a relational database design, the key of the parent entity should be placed as part of the primary key into the child entity _____.

- A) when the child entity is ID-dependent
- B) when the child entity is non-ID-dependent
- C) when the child entity has a 1:1 relationship with the parent entity
- D) when the child entity has a 1:N relationship with the parent entity
- E) when the child entity has a recursive relationship with the parent entity

Answer: <https://biology-forums.com/index.php?topic=740629>

Question 1053

An associative container uses _____ to access elements rapidly.

- A) complex sort algorithms
- B) functions
- C) keys

- D) data
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742193>

Question 1054

Use cases can be used to validate the data model, design, and implementation.
True or False?

Answer: <https://biology-forums.com/index.php?topic=740510>

Question 1055

Maximum cardinality indicates whether or not an instance of one entity class must be related to at least one instance of another entity class.
True or False?

Answer: <https://biology-forums.com/index.php?topic=740520>

Question 1056

The _____ starts with the key word try, and is followed by a block of code executing any statements that might cause an exception to be thrown.

- A) catch() function
- B) try/catch class
- C) try() function
- D) try block
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742168>

Question 1057

Which of the following is not a basic element of the E-R Model?

- A) Identifiers
- B) Entities
- C) Cardinalities
- D) Use cases
- E) Relationships

Answer: <https://biology-forums.com/index.php?topic=740537>

Question 1058

Microsoft Access 2013 databases can be secured using trusted locations for database storage.
True or False?

Answer: <https://biology-forums.com/index.php?topic=740684>

Question 1059

True/False: You may nest while and do-while loops, but you may not nest for loops.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741722>

Question 1060

This function converts a C-string to an integer and returns the integer value.

- A) strtoint
- B) strint
- C) atoi
- D) atoint
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741912>

Question 1061

The MySQL Workbench EER models are data models.
True or False?

Answer: <https://biology-forums.com/index.php?topic=741019>

Question 1062

Preventing multiple applications from obtaining copies of the same record when the record is about to be changed is called:

- A) serialized reading.
- B) lost updating.
- C) concurrent processing.
- D) resource locking.
- E) block factoring.

Answer: <https://biology-forums.com/index.php?topic=740694>

Question 1063

When an application begins searching a binary tree, it starts at _____.

- A) the middle node, halfway between the root and the longest branch
- B) the root node
- C) the rightmost child of the root node
- D) the outermost leaf node
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742320>

Question 1064

Report management systems include the ability to create associated user accounts and groups.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741306>

Question 1065

In a function header, you must furnish:

- A) data type(s) of the parameters
- B) names of parameter variables
- C) the name of function
- D) data type of the return value
- E) All of these

Answer: <https://biology-forums.com/index.php?topic=741732>

Question 1066

True/False: Before you can perform a selection sort, the data must be stored in ascending order.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741856>

Question 1067

To be considered a composite key, a key must contain at least two attributes.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740328>

Question 1068

Downloading and installing the MySQL connector/ODBC means that the _____ (name and version) driver will be available in the ODBC Data Source Administrator.

Answer: <https://biology-forums.com/index.php?topic=741055>

Question 1069

True/False: C++ 11 introduces an alternative way to define variables, using the template key word and an initialization value.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741564>

Question 1070

An SQL virtual table is called a(n):

- A) CHECK constraint.
- B) view.
- C) embedded SQL statement.
- D) trigger.
- E) stored procedure.

Answer: <https://biology-forums.com/index.php?topic=741105>

Question 1071

To represent a 1:N relationship in the relational model, the key of the entity on the one side of the relationship is placed as a foreign key in the entity on the many side of the relationship.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740598>

Question 1072

What are Business Intelligence (BI) systems?

Answer: <https://biology-forums.com/index.php?topic=740908>

Question 1073

For a Web server running the Windows operating system, the most commonly used Web server is IIS.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741244>

Question 1074

True/False: A recursive function cannot call another function.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742310>

Question 1075

The Oracle DBMS supports the SQL BEFORE trigger.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741094>

Question 1076

Microsoft Access 2013 uses banded form and report editors.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740530>

Question 1077

The PHP installation in the text installed version _____ of PHP.

- A) 5.2.13
- B) 5.2.14
- C) 5.3.0
- D) 5.3.5
- E) 5.3.28

Answer: <https://biology-forums.com/index.php?topic=741272>

Question 1078

Refer to the table above. What is the support for Drug A and Drug B?

- A) .025
- B) .075
- C) .100
- D) .125
- E) .200

Answer: <https://biology-forums.com/index.php?topic=741349>

Question 1079

True/False: The bubble sort is an easy way to arrange data into ascending order, but it cannot arrange data into descending order.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741852>

Question 1080

The component of a database that makes it self-describing is the:

- A) related tables.
- B) applications.
- C) library.
- D) data set.
- E) metadata.

Answer: <https://biology-forums.com/index.php?topic=740281>

Question 1081

SQL query results are displayed in a tabbed _____ window.

Answer: <https://biology-forums.com/index.php?topic=740995>

Question 1082

Personal DBMS products, such as Microsoft Access, create a clear distinction between the DBMS and the database application.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740266>

Question 1083

What is a distributed database?

Answer: <https://biology-forums.com/index.php?topic=740916>

Question 1084

A stored program that is stored within the database and compiled when used is called a trigger.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741098>

Question 1085

Describe how to create relationships in a MySQL Workbench database design.

Answer: <https://biology-forums.com/index.php?topic=741074>

Question 1086

A good reason to use the binary tree structure is:

- A) to expedite the process of searching large sets of information
- B) code readability
- C) aesthetics and program design
- D) it is more flexible than the Unary Tree structure
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742316>

Question 1087

What is the value of the following expression?

false || true

- A) true
- B) false
- C) -1
- D) +1

Answer: <https://biology-forums.com/index.php?topic=741650>

Question 1088

A(n) _____ search is more efficient than a _____ search.

- A) binary, linear
- B) character, string
- C) integer, double
- D) linear, binary
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741841>

Question 1089

The Microsoft Access 2013 application generator provides the ability to create and store forms, reports, and queries.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740269>

Question 1090

Stored procedures have the advantage of greater security, decreased network traffic, SQL optimized by the DBMS compiler, and code sharing.
True or False?

Answer: <https://biology-forums.com/index.php?topic=741099>

Question 1091

SQL views can be used to layer built-in SQL functions.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741089>

Question 1092

True/False: C++ limits the number of array dimensions to two.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741830>

Question 1093

This is a variable, usually a bool or an int, that signals when a condition exists.

- A) flag
- B) float
- C) relational operator
- D) arithmetic operator
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741617>

Question 1094

True/False: A member function of a derived class may not have the same name as a member function of a base class.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742162>

Question 1095

The SUM built-in function in SQL is used to total the values in a numeric column.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740429>

Question 1096

The do-while loop is a(n) _____ loop that is ideal in situations where you always want the loop to iterate at least once.

- A) null-terminated
- B) infinite
- C) pre-test
- D) post-test
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741674>

Question 1097

Which of the following is not true about primary keys?

- A) Primary keys cannot be null.
- B) Primary keys must be unique.
- C) Primary keys must be a single attribute.
- D) Primary keys are used to represent relationships.
- E) Primary keys can be defined using an SQL CONSTRAINT phrase.

Answer: <https://biology-forums.com/index.php?topic=740448>

Question 1098

Which of the following lines of code defines an array of C-strings that will hold 49 characters and the null terminator?

- A) char str[50];
- B) char [49];
- C) char[50] str;
- D) character str[50];
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741932>

Question 1099

Users log into MySQL 5.6 Community Server Edition using the _____ dialog box.

Answer: <https://biology-forums.com/index.php?topic=741057>

Question 1100

A variable declaration announces the name of a variable that will be used in a program, as well as:

- A) The number of times it will be used in the program
- B) The type of data it will be used to hold
- C) The area of the code in which it will be used
- D) The operators that will be used on it
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741479>

Question 1101

In the MySQL Workbench, a 1:N identifying relationship between two tables that already contain the needed primary and foreign keys is created using:

- A) the 1:N Identifying Relationship button.
- B) the 1:N Non-identifying Relationship button.
- C) the N:M Identifying Relationship button.
- D) the Place a Relationship Using Existing Columns button.
- E) None of the above is correct.

Answer: <https://biology-forums.com/index.php?topic=741051>

Question 1102

Given the tables

STUDENT(StudentID, StudentName, AdvisorID)

ADVISOR(AdvisorID, AdvisorName, Office, Phone)

which of the following SQL statements would be used to implant a join between the two tables?

- A) WHERE STUDENT MATCH ADVISOR
- B) WHERE STUDENT.AdvisorID MATCH ADVISOR.AdvisorID
- C) WHERE STUDENT = ADVISOR
- D) WHERE STUDENT JOIN ADVISOR
- E) WHERE STUDENT JOIN ADVISOR ON STUDENT.AdvisorID = ADVISOR.AdvisorID

Answer: <https://biology-forums.com/index.php?topic=740465>

Question 1103

True/False: The setprecision manipulator cannot be used to format data written to a file.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742037>

Question 1104

SQL views are constructed from SELECT statements.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741077>

Question 1105

_____ is facts and numbers.

Answer: <https://biology-forums.com/index.php?topic=741171>

Question 1106

True/False: The speed and amount of memory available to modern computers diminishes the performance impact of recursion so much that inefficiency is no longer a strong argument against it.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742314>

Question 1107

The first step in using the string class is to #include the _____ header file.

- A) ctype
- B) iostream
- C) cmath
- D) string
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741551>

Question 1108

The recovery method where the database is restored using the saved data, and all transactions since the save are reapplied is called _____ recovery.

Answer: <https://biology-forums.com/index.php?topic=740720>

Question 1109

For a column to be defined as the primary key using table constraints, the column must have been given the property NULL. True or False?

Answer: <https://biology-forums.com/index.php?topic=740414>

Question 1110

In C++ 11, the _____ tells the compiler to determine the variable's data type from the initialization value.

- A) auto key word
- B) variable's name
- C) dynamic_cast key word
- D) #include preprocessor directive
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741554>

Question 1111

In a broad sense, the two primary categories of programming languages are:

- A) Mainframe and PC
- B) COBOL and BASIC
- C) Hardware and Software
- D) Low-level and High-level
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741490>

Question 1112

What is the Microsoft Web Platform Installer, and what are the advantages and disadvantages of using it to install PHP?

Answer: <https://biology-forums.com/index.php?topic=741277>

Question 1113

What is an SQL script, and why are SQL scripts useful?

Answer: <https://biology-forums.com/index.php?topic=741067>

Question 1114

Whether or not an instance of one entity class must participate in a relationship with another entity class is indicated by the:

- A) degree.
- B) recursive cardinality.
- C) minimum cardinality.
- D) maximum cardinality.
- E) ordinality.

Answer: <https://biology-forums.com/index.php?topic=740544>

Question 1115

In Microsoft Visio 2013, the Crow's Foot Database Notation stencil objects include a Category object.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741199>

Question 1116

Which of the following is not one of the five major components of a computer system?

- A) Main memory
- B) The CPU (central processing unit)
- C) Input/Output device
- D) Preprocessor
- E) Secondary storage device

Answer: <https://biology-forums.com/index.php?topic=741491>

Question 1117

SQL views can be used to hide table _____.

Answer: <https://biology-forums.com/index.php?topic=741133>

Question 1118

If the condition exists such that knowing the value of attribute X determines the value of attribute Y, then attribute Y is functionally dependent on attribute X.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740337>

Question 1119

True/False: When you use a strongly typed enumerator in C++ 11, you must prefix the enumerator with the name of the enum, followed by the :: operator.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741998>

Question 1120

Report management defines who gets the report, how often, and how it is to be delivered.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741305>

Question 1121

True/False: You may overload any C++ operator, and you may use the operator function to define non-standard operators, such as @ and ^.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742122>

Question 1122

What will the following code display?

```
int number = 7;
cout << "The number is " << "number" << endl;
```

- A) The number is7
- B) The number is 7
- C) The number is 0
- D) The number is number

Answer: <https://biology-forums.com/index.php?topic=741541>

Question 1123

This is a set of rules that must be followed when constructing a program.

- A) Portability
- B) Key words
- C) Syntax
- D) Punctuation
- E) Operators

Answer: <https://biology-forums.com/index.php?topic=741487>

Question 1124

If a recursive function does not contain a base case, it _____.

- A) reaches the recursive case and stops
- B) returns false and stops
- C) returns 0 and stops
- D) uses up all available stack memory, causing the program to crash
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742296>

Question 1125

Microsoft Access 2013 can be used to build a prototype database, which allows users to validate the data model by demonstrating the consequences of data modeling decisions.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740526>

Question 1126

True/False: A linear search can only be implemented with integer values.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741855>

Question 1127

What will the following loop display?

```
int x = 0;
while (x < 5)
{
    cout << x << endl;
    x++;
}
```

- A) 0
- 1
- 2
- 3
- 4
- 5
- B) 0
- 1
- 2
- 3
- 4
- C) 0 1 2 3 4
- D) The loop will display numbers starting at 0, for infinity.

Answer: <https://biology-forums.com/index.php?topic=741692>

Question 1128

Microsoft Access can be used to prototype databases for which of the following DBMS products?

- A) Microsoft Access
- B) SQL Server
- C) MySQL
- D) Oracle Database
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=740553>

Question 1129

Which of the following is not true of database recovery through reprocessing?

- A) Reprocessing makes use of a database save.
- B) Reprocessing takes the same amount of time as did processing in the first place.
- C) Reprocessing will always return the database to its exact previous state.
- D) Reprocessing requires a record of all transactions since the last time the database was saved.

E) All of the above are true of reprocessing.

Answer: <https://biology-forums.com/index.php?topic=740703>

Question 1130

If a function does not have a prototype, default arguments may be specified in the function _____.

- A) return type
- B) header
- C) call
- D) execution
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741750>

Question 1131

Oracle Database Express Edition 11g Release 2 uses _____ to generate surrogate keys.

Answer: <https://biology-forums.com/index.php?topic=740994>

Question 1132

This is automatically called when an object is destroyed.

- A) destructor function
- B) specification deallocator
- C) coroner function
- D) constructor function
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742061>

Question 1133

A _____ is processed in a manner similar to customers standing in a grocery check-out line—the first customer in line is the first served.

- A) vector
- B) queue
- C) stack
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742265>

Question 1134

By using the same _____ you can build relationships between data stored in two or more arrays.

- A) data
- B) arguments
- C) subscript
- D) array name
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741786>

Question 1135

An entity that must logically depend on another entity is called a(n) _____ entity.

Answer: <https://biology-forums.com/index.php?topic=740562>

Question 1136

Lock granularity refers to whether a lock is placed by the DBMS automatically or is placed by a command from the application program.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740671>

Question 1137

Write the schema to represent the entities below, including tables, the proper placement of the foreign key, and referential integrity constraint.

Answer: <https://biology-forums.com/index.php?topic=740660>

Question 1138

In C++, a C-string is a sequence of characters stored in consecutive memory, terminated by a _____.

- A) space

- B) period
- C) null character
- D) semicolon
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741924>

Question 1139

To read data from a file, you define an object of this data type.

- A) ifstream
- B) inputFile
- C) fstream
- D) ofstream

Answer: <https://biology-forums.com/index.php?topic=741703>

Question 1140

SQL views can be used to display the results of _____.

Answer: <https://biology-forums.com/index.php?topic=741134>

Question 1141

A(n) _____ is a relationship among entities of the same class.

Answer: <https://biology-forums.com/index.php?topic=740647>

Question 1142

Dimensional databases are used to track historical data and therefore must have a:

- A) time dimension.
- B) customer dimension.
- C) sales dimension.
- D) Either A or B
- E) Both A and B

Answer: <https://biology-forums.com/index.php?topic=740865>

Question 1143

The advantage a linked list has over a vector is:

- A) A linked list can dynamically shrink or grow, and a vector cannot
- B) Data removal and insertion are more accurate with a linked list than with a vector
- C) A node can be inserted into or removed from a linked list faster than from a vector
- D) A linked list is smaller than a vector
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742219>

Question 1144

The _____ destructor is called before the _____ destructor.

- A) private, public
- B) public, private
- C) derived, base
- D) base, derived
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742146>

Question 1145

True/False: If you are using a compiler that is older than C++ 11, be sure to put spaces between the angled brackets that appear next to each other when defining a stack.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742292>

Question 1146

A business process is a set of activities that transforms _____ into _____.

Answer: <https://biology-forums.com/index.php?topic=741178>

Question 1147

True/False: In C++, key words are written in all lowercase letters.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741498>

Question 1148

Using SQL commands, multiple tables can be queried using either subqueries or _____.

Answer: <https://biology-forums.com/index.php?topic=740484>

Question 1149

True/False: The ftoa function converts a floating-point value to an ASCII value.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741942>

Question 1150

An Integrated Development Environment typically consists of:

- A) A debugger
- B) A text editor
- C) A compiler
- D) All of the above
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741458>

Question 1151

A two-dimensional array of characters can contain _____.

- A) uninitialized elements
- B) strings of the same length
- C) strings of different lengths
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741804>

Question 1152

The ODBC standard defines a way to:

- A) start transactions.
- B) rollback transactions.
- C) create a connection.
- D) issue SQL commands.
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=740777>

Question 1153

Which of the following is a function of the database application in a database system?

- A) Create and transmit queries
- B) Update database data
- C) Maintain database structures
- D) Create tables
- E) Backup and restore data

Answer: <https://biology-forums.com/index.php?topic=740285>

Question 1154

Database administrators must make sure that _____ measures are in place and enforced so that only authorized users can take authorized actions at appropriate times.

Answer: <https://biology-forums.com/index.php?topic=740715>

Question 1155

A primary key is:

- A) required to be unique.
- B) used to represent rows in relationships.
- C) a candidate key.
- D) used to identify unique rows.
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=740358>

Question 1156

Two types of container classes in the STL are:

- A) sequence and associative
- B) box and cylinder
- C) constant and literal
- D) array and struct
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742178>

Question 1157

XML documents that do not conform to their DTD are said to be non-type-valid XML documents.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741396>

Question 1158

To create a new MySQL Workbench EER model, you can use:

- A) the New Model button on the Home page.
- B) the File | New Model command.
- C) the Start new EER command.
- D) A or B
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741043>

Question 1159

In Microsoft Visio 2013, the cardinalities of the Relationship connector object end points are formatted using:

- A) the Set Begin Symbol command.
- B) the Set End Symbol command.
- C) the Set Non-primary Key Unique column.
- D) the Set Non-foreign Key Unique column.
- E) A and B.

Answer: <https://biology-forums.com/index.php?topic=741217>

Question 1160

To create a new MySQL query, use the _____ command.

Answer: <https://biology-forums.com/index.php?topic=741063>

Question 1161

Users in SQL Developer log into a workspace using the _____ account.

Answer: <https://biology-forums.com/index.php?topic=740989>

Question 1162

When creating an OLAP report based on Access 2013 data, it is often a good idea to create a view equivalent query to organize the data needed for the OLAP report.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740847>

Question 1163

True/False: More than one class may be derived from a base class.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742158>

Question 1164

In Microsoft Visio 2013, the data models in this book are created using:

- A) the Chen's Database Notation template.
- B) the UML database Notation template.
- C) the IDEF1X Database Notation template.
- D) the Crow's Foot Database Notation template.
- E) the Wireframe Database Diagram template.

Answer: <https://biology-forums.com/index.php?topic=741209>

Question 1165

True/False: A sequence container organizes data in a sequential fashion, similar to an array.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742201>

Question 1166

What does NoSQL stand for, and what does it mean?

Answer: <https://biology-forums.com/index.php?topic=741450>

Question 1167

SQL query results are displayed:

- A) in a tabbed Resultset window.
- B) in a tabbed Results window.
- C) in a tabbed Document window.
- D) in a tabbed Messages window.
- E) in a tabbed Finished window.

Answer: <https://biology-forums.com/index.php?topic=740939>

Question 1168

A _____ argument is passed to a parameter when the actual argument is left out of the function call.

- A) false
- B) default
- C) null
- D) true
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741749>

Question 1169

How many steps are involved in the process of deleting a node?

- A) one—delete the node from memory
- B) four—create a blank, remove the node being deleted, insert the blank, delete the node, delete the blank
- C) three—create a blank node, remove the node being deleted, insert the blank, then delete the node
- D) two—remove the node without breaking links, then delete it from memory
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742213>

Question 1170

In unsupervised data mining, a model or hypothesis is created ahead of time.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741310>

Question 1171

True/False: Binary trees are commonly used to organize key values that index database records.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742346>

Question 1172

Types of iterators are _____.

- A) input and output
- B) random-access
- C) forward and bidirectional
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742194>

Question 1173

Explain how to run an SQL query in Microsoft Access.

Answer: <https://biology-forums.com/index.php?topic=740505>

Question 1174

A(n) _____ is the most fundamental set of programs on a computer.

- A) compiler
- B) operating system
- C) utility program
- D) application
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741485>

Question 1175

What is the output of the following program?

```
#include <iostream>
using namespace std;
class TestClass
{
public:
    TestClass(int x)
    { cout << x << endl; }
    TestClass()
    { cout << "Hello!" << endl; }
};
int main()
{
    TestClass test;
    return 0;
}
```

- A) The program runs, but with no output.
- B) Hello!
- C) 0
- D) The program will not compile.

Answer: <https://biology-forums.com/index.php?topic=742069>

Question 1176

If you place a semicolon after the test expression in a while loop, it is assumed to be a(n):

- A) post-test loop
- B) null statement
- C) pre-test loop
- D) infinite loop
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741669>

Question 1177

_____ functions are dynamically bound by the compiler.

- A) Constructor
- B) Static
- C) Virtual
- D) Destructor
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742155>

Question 1178

True/False: You may use the exit() function to terminate a program, regardless of which control mechanism is executing.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741780>

Question 1179

Which of the following data types used in SQL would define a fixed-length text field of 10 characters?

- A) text(10)
- B) char(10)
- C) varchar(10)
- D) fixed(10)
- E) length(10)

Answer: <https://biology-forums.com/index.php?topic=740445>

Question 1180

Microsoft Access forms can only contain data from one table.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740351>

Question 1181

Which type of join, although not included in standard SQL, was created to allow unmatched rows to appear in the result of a join operation?

- A) ODD JOIN
- B) OPEN JOIN
- C) OUTER JOIN
- D) INNER JOIN
- E) COMBINE JOIN

Answer: <https://biology-forums.com/index.php?topic=740466>

Question 1182

True/False: The C++ library provides functions for converting a string representation of a number to a numeric data type, and vice-versa.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741941>

Question 1183

Describe the MySQL Connector/ODBC and how to install it.

Answer: <https://biology-forums.com/index.php?topic=741070>

Question 1184

An array can easily be stepped through by using a _____.

- A) for loop
- B) null value
- C) reference variable
- D) named constant
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741799>

Question 1185

This type of member function may be called only from a function that is a member of the same class.

- A) private
- B) global
- C) local
- D) public
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742059>

Question 1186

How are SQL views handled in Microsoft Access?

Answer: <https://biology-forums.com/index.php?topic=741144>

Question 1187

The Oracle Database GUI tool used for application development is the Oracle SQL Developer.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740964>

Question 1188

For a 1:1 relationship, the key of each table should be placed in the other table as the foreign key.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740594>

Question 1189

True/False: The update expression of a for loop can contain more than one statement, e.g. counter++, total+= sales.

A) True

B) False

Answer: <https://biology-forums.com/index.php?topic=741720>

Question 1190

True/False: When passing a file stream object to a function, you should always pass it by reference.

A) True

B) False

Answer: <https://biology-forums.com/index.php?topic=742038>

Question 1191

SQL statements used to construct views cannot contain the WHERE clause.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741078>

Question 1192

SQL statements can be run individually or as part of a related group of SQL statements known as a:

A) Result.

B) Resultset.

C) Script.

D) Scriptset.

E) Commandset.

Answer: <https://biology-forums.com/index.php?topic=740981>

Question 1193

The last node in a linked list points to _____.

A) nothing. It does not contain a pointer.

B) a null pointer

C) the previous node

D) the first node in the list

E) None of these

Answer: <https://biology-forums.com/index.php?topic=742222>

Question 1194

True/False: Machine language is an example of a high-level language.

A) True

B) False

Answer: <https://biology-forums.com/index.php?topic=741500>

Question 1195

Even when there is no power to the computer, data can be held in:

A) Secondary storage

B) The Input Device

C) The Algorithm

- D) The Output Device
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741475>

Question 1196

In Microsoft Visio 2013, the Crow's Foot Database Notation stencil objects include:

- A) an Entity object.
- B) a Relationship object.
- C) a Dynamic connector object.
- D) A and B
- E) A, B, and C

Answer: <https://biology-forums.com/index.php?topic=741211>

Question 1197

SQL query results are displayed:

- A) in a tabbed Resultset window.
- B) in a tabbed Query Result window.
- C) in a tabbed Document window.
- D) in a tabbed Messages window.
- E) in a tabbed Finished window.

Answer: <https://biology-forums.com/index.php?topic=740983>

Question 1198

In crow's foot E-R notation, the crow's foot indicates a maximum cardinality of one.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740522>

Question 1199

Distinguish between statement-level consistency and transaction-level consistency.

Answer: <https://biology-forums.com/index.php?topic=740733>

Question 1200

True/False: The inorder method of traversing a binary tree involves traversing the node's left subtree, processing the node's data, and then traversing the node's right subtree.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742342>

Question 1201

NoSQL really stands for _____.

Answer: <https://biology-forums.com/index.php?topic=741441>

Question 1202

What are the advantages and disadvantages of personal DBMS products hiding the complexity of database systems?

Answer: <https://biology-forums.com/index.php?topic=740318>

Question 1203

Information systems are used to support _____.

Answer: <https://biology-forums.com/index.php?topic=741179>

Question 1204

SQL statements used to construct views cannot contain the _____ clause.

Answer: <https://biology-forums.com/index.php?topic=741129>

Question 1205

By default, Microsoft Access 2013 saves data files in the _____ file format.

Answer: <https://biology-forums.com/index.php?topic=740309>

Question 1206

ODBC stands for Open Database Connectivity.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740745>

Question 1207

Members of a class object are accessed with the _____.

- A) stream insertion operator
- B) dot operator
- C) cin object
- D) extraction operator
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742056>

Question 1208

An exception thrown from outside a try block _____.

- A) will be caught outside the catch block
- B) will be caught inside the catch block
- C) will cause the program to abort execution
- D) will remain inside the throw block
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742170>

Question 1209

In the relational model, each row of a table contains data that represents an attribute of the entity.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740326>

Question 1210

True/False: You may not use the break statement in a nested loop.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741723>

Question 1211

Which of the following terms is synonymous with "relation"?

- A) Attribute
- B) Table
- C) Record
- D) Row
- E) Tuple

Answer: <https://biology-forums.com/index.php?topic=740355>

Question 1212

SQL Server 2014 uses DBMS authentication by default.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740925>

Question 1213

In Microsoft Visio 2013, a group of template objects is called a stencil.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741196>

Question 1214

RFM analysis is a way of analyzing and ranking customers based on online survey data.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741291>

Question 1215

Which of the following standard SQL data types is not supported in Microsoft Access SQL?

- A) Integer
- B) Char(25)
- C) VarChar(35)
- D) Numeric(5,3)
- E) DateTime

Answer: <https://biology-forums.com/index.php?topic=740473>

Question 1216

A for statement contains three expressions: initialization, test, and

- A) reversal
- B) null
- C) update
- D) validation
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741671>

Question 1217

Microsoft Access 2013 _____ allow easy mock-ups of forms and reports for prototyping.

Answer: <https://biology-forums.com/index.php?topic=740567>

Question 1218

The _____ is a representation of the content, relationships, and constraints of the data needed to support the system requirements.

Answer: <https://biology-forums.com/index.php?topic=740556>

Question 1219

XML documents can be _____ against their XML Schema.

- A) measured
- B) grown
- C) validated
- D) browsed
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741431>

Question 1220

Character constants in C++ are always enclosed in _____.

- A) 'single quotation marks'
- B) (parentheses)
- C) "double quotation marks"
- D) {braces}
- E) [brackets]

Answer: <https://biology-forums.com/index.php?topic=741529>

Question 1221

One type of strong entity is the ID-dependent entity.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740521>

Question 1222

In the MySQL Workbench, a 1:N non-identifying relationship between two tables that already contain the needed primary and foreign keys is created using the 1:N Non-identifying Relationship button.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741027>

Question 1223

True/False: A list that contains pointers to the previous node, the next node, and a node in the third dimension is known as a triple-linked list.

- A) True

B) False

Answer: <https://biology-forums.com/index.php?topic=742245>

Question 1224

The E-R Model assumes that all instances of a given entity class have the same attributes.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740516>

Question 1225

One deliverable from the requirements analysis step is a _____.

Answer: <https://biology-forums.com/index.php?topic=741183>

Question 1226

_____ constraints are rules that the DBMS enforces to ensure that data values in one table have corresponding values in another related table.

Answer: <https://biology-forums.com/index.php?topic=740302>

Question 1227

An important improvement of XML Schema over DTDs is that _____.

- A) XML Schema can be stored external to the document
- B) XML Schema support XQL queries
- C) XML Schema are XML documents
- D) XML Schema are not required
- E) XML Schema can validate XML documents

Answer: <https://biology-forums.com/index.php?topic=741432>

Question 1228

If the computer hosting the Web server is running a UNIX or Linux operating system, the Web server is probably:

- A) Apache.
- B) Tomcat.
- C) Internet Information Server (IIS).
- D) Internet Interpreter Server (IIS).
- E) Information Interpreter Server (IIS).

Answer: <https://biology-forums.com/index.php?topic=740775>

Question 1229

Oracle Database XE 11.2 is a Web-based Oracle Database administration utility.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740961>

Question 1230

Conditions after the WHERE keyword require single quotes around the values for columns that have which data type?

- A) Char
- B) VarChar
- C) Integer
- D) Numeric
- E) Both A and B

Answer: <https://biology-forums.com/index.php?topic=740455>

Question 1231

A report that is sent to users on a predetermined schedule is called a push report.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741301>

Question 1232

True/False: Software engineering is a field that encompasses designing, writing, testing, debugging, documenting, modifying, and maintaining computer programs.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741495>

Question 1233

A transaction in which all steps must be completed successfully or none of them will be completed is called a durable transaction. True or False?

Answer: <https://biology-forums.com/index.php?topic=740667>

Question 1234

Microsoft Access SQL allows table structures to be modified by using the standard SQL _____ command.

Answer: <https://biology-forums.com/index.php?topic=740493>

Question 1235

Words that have a special meaning and may be used only for their intended purpose are known as:

- A) Operators
- B) Programmer Defined Words
- C) Syntax
- D) Key Words
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741476>

Question 1236

A data warehouse database differs from an operational database because:

- A) data warehouse data are not stored in tables.
- B) data warehouse databases do not have metadata.
- C) data warehouse data are often stored in a dimensional database.
- D) Both B and C
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=740861>

Question 1237

Since Microsoft Access is a personal database, it is not subject to the modification problems that occur in other relational databases. True or False?

Answer: <https://biology-forums.com/index.php?topic=740347>

Question 1238

To log into Oracle Database XE 11.2, use your personal account information.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740962>

Question 1239

A(n) _____ is a set of one or more computer programs that serves as an intermediary between the user and the DBMS.

Answer: <https://biology-forums.com/index.php?topic=740304>

Question 1240

What will the following code output?

```
int *numbers = new int[5];
for (int i = 0; i <= 4; i++)
    *(numbers + i) = i;
cout << numbers[2] << endl;
```

- A) 2
- B) 3
- C) 0
- D) Five memory addresses
- E) 1

Answer: <https://biology-forums.com/index.php?topic=741891>

Question 1241

A(n) _____ is a program stored within the DBMS that is invoked by the DBMS when a specified event occurs.

Answer: <https://biology-forums.com/index.php?topic=740795>

Question 1242

When developing a database system, the database is constructed during the implementation phase.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740507>

Question 1243

One of the four categories of NoSQL databases used in the text is the Column Family database.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741380>

Question 1244

In a common form of RFM analysis, a score of 1 is "high" or "good" while a score of 5 is "low" or "bad."

True or False?

Answer: <https://biology-forums.com/index.php?topic=741294>

Question 1245

SQL Server 2014 uses _____ authentication by default.

Answer: <https://biology-forums.com/index.php?topic=740945>

Question 1246

What is assigned to the variable a given the statement below with the following assumptions: x = 10, y = 7, and z, a, and b are all int variables.

a = x >= y;

- A) 0
- B) 1
- C) The string "x >= y"
- D) 10
- E) 7

Answer: <https://biology-forums.com/index.php?topic=741614>

Question 1247

The IIS Web server is managed using the:

- A) Microsoft Internet Information Service (IIS) Manager.
- B) Microsoft SQL Server Management Studio.
- C) Microsoft Visual Studio.
- D) Microsoft IIS Workbench.
- E) Microsoft Web Workbench.

Answer: <https://biology-forums.com/index.php?topic=741263>

Question 1248

True/False: The following statement will output \$5.00 to the screen:

```
cout << setprecision(5) << dollars << endl;
```

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741608>

Question 1249

Describe how to add a table object to a MySQL Workbench database design.

Answer: <https://biology-forums.com/index.php?topic=741072>

Question 1250

For a Web server running the Windows operating system, the most commonly used Web server is:

- A) the IIS Web server.
- B) the Apache Web server.
- C) the Tomcat Web server.
- D) the ASP.NET Web server.
- E) the JSP Web server.

Answer: <https://biology-forums.com/index.php?topic=741261>

Question 1251

What database administration functions help bring order to the potential chaos of the database processing environment?

Answer: <https://biology-forums.com/index.php?topic=740728>

Question 1252

SQL views are used:

- A) to hide columns or rows.
- B) to display the results of computations.
- C) to hide complicated SQL syntax.
- D) to layer built-in functions.
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741113>

Question 1253

_____ allows us to create new classes based on existing classes.

- A) Polymorphism
- B) The copy constructor
- C) Function overloading
- D) Inheritance
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742127>

Question 1254

An example of a secondary storage device is:

- A) The keyboard
- B) The computer's main memory
- C) The monitor
- D) The disk drive
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741481>

Question 1255

The following statement:

```
class Car : private Vehicle
allows the _____ members of the Car class to access _____ members of the Vehicle class.
```

- A) private, private
- B) public, protected
- C) protected, private
- D) public, private
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742142>

Question 1256

An important improvement of XML Schema over DTDs is that XML Schemas are themselves XML documents.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741401>

Question 1257

The SQL statement used to delete a view from a database is:

- A) ALTER EXISTING VIEW ViewName AS.
- B) ALTER VIEW ViewName AS.
- C) DELETE VIEW ViewName.
- D) DROP EXISTING VIEW ViewName.
- E) DROP VIEW ViewName.

Answer: <https://biology-forums.com/index.php?topic=741112>

Question 1258

In Microsoft Visio 2013, both data models and database designs are created using the Crow's Foot Database Notation template.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741195>

Question 1259

This is a "generic" function that can work with any data type.

- A) member function
- B) function argument
- C) function template
- D) function parameter
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742185>

Question 1260

Although Excel 2013 will create a PivotTable report using Access 2013 data, it does not have formatting tools that can be used with the report. True or False?

Answer: <https://biology-forums.com/index.php?topic=740850>

Question 1261

Business Intelligence (BI) systems fall into which of the following categories?

- A) Processing
- B) Reporting
- C) Data mining
- D) Both A and B
- E) Both B and C

Answer: <https://biology-forums.com/index.php?topic=741319>

Question 1262

The values of existing data can be modified using the SQL _____ command, which can be used to change several column values at once.

Answer: <https://biology-forums.com/index.php?topic=740487>

Question 1263

Which SQL keyword is used to apply conditions to restrict groups that appear in the results of a SELECT query that uses GROUP BY?

- A) WHERE
- B) HAVING
- C) LIKE
- D) SORT
- E) DISTINCT

Answer: <https://biology-forums.com/index.php?topic=740464>

Question 1264

When Microsoft Access 2013 uses user-level security with an Access 2003 file, the database is stored in a(n):

- A) *.accdb file.
- B) *.accdc file.
- C) *.accde file.
- D) *.mdb file.
- E) *.mdw file.

Answer: <https://biology-forums.com/index.php?topic=740712>

Question 1265

What are SQL triggers and how are they used?

Answer: <https://biology-forums.com/index.php?topic=741142>

Question 1266

This type of member function may be called from a statement outside the class.

- A) global
- B) public
- C) undeclared
- D) private
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742052>

Question 1267

Which of the following is not a function of the database application in a database system?

- A) Execute application logic
- B) Control concurrency
- C) Create and process forms
- D) Create and transmit queries
- E) Create and process reports

Answer: <https://biology-forums.com/index.php?topic=740286>

Question 1268

The total number of digits that appear before and after the decimal point is sometimes referred to as:

- A) floating points
- B) significant digits
- C) precision
- D) B and C
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741587>

Question 1269

Dynamic memory allocation occurs _____.

- A) when a new variable is created at runtime
- B) when a pointer fails to dereference the right variable
- C) when a pointer is assigned an incorrect address
- D) when a new variable is created by the compiler
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741882>

Question 1270

A dirty read is a problem with concurrent processing when a transaction rereads data it has already read and finds modifications or deletions caused by another transaction.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740669>

Question 1271

Logging into the SQL Server 2014 Express DBMS is done using:

- A) the Connect to Server command.
- B) the Connect to Server dialog box.
- C) the Connect to SQL Server Instance command.
- D) the Connect to SQL Server Instance dialog box.
- E) None of the above is correct.

Answer: <https://biology-forums.com/index.php?topic=740934>

Question 1272

According to the ODBC standard, a(n) _____ is a database and its associated DBMS, operating system, and network platform.

Answer: <https://biology-forums.com/index.php?topic=740801>

Question 1273

Internally, the CPU consists of two parts:

- A) The Control Unit and the Arithmetic and Logic Unit
- B) The Output Device and the Input Device
- C) The Single-task Device and the Multi-task Device
- D) The Software and the Hardware
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741474>

Question 1274

The value in a _____ variable persists between function calls.

- A) local
- B) static local
- C) counter
- D) dynamic

Answer: <https://biology-forums.com/index.php?topic=741752>

Question 1275

OLAP stands for:

- A) Online Analytical Processing.
- B) Offline Analytical Processing.
- C) Online Analysis Process.
- D) Offline Analysis Process.
- E) Old, Lazy And Particular.

Answer: <https://biology-forums.com/index.php?topic=741342>

Question 1276

An element of a two-dimensional array is referred to by _____ followed by _____.

- A) the row subscript of element, the array name
- B) the array name, the column number of element
- C) a comma, a semicolon
- D) the row subscript of the element, the column subscript of the element
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741792>

Question 1277

A(n) _____ is a working demonstration of selected portions of the future system.

Answer: <https://biology-forums.com/index.php?topic=740557>

Question 1278

When a derived class has two or more base classes, the situation is known as _____.

- A) polymorphism
- B) encapsulation
- C) multiple inheritance
- D) access specification
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742138>

Question 1279

What will the value of x be after the following statements execute?

```
int x;
```

```
x = 18 % 4;
```

- A) 4
- B) unknown
- C) 0.45
- D) 2

Answer: <https://biology-forums.com/index.php?topic=741549>

Question 1280

The Standard Template Library offers a stack template that may be implemented as a:

- A) deque
- B) linked list
- C) vector
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742249>

Question 1281

A function may return a pointer, but the programmer must ensure that the pointer _____.

- A) still points to a valid object after the function ends

- B) has not been assigned an address
- C) has not previously been returned by another function
- D) was received as a parameter by the function
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741870>

Question 1282

Microsoft Access 2013 switchboards use _____ as part of the switchboard.

- A) text buttons
- B) report windows
- C) Wizard buttons
- D) command buttons
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741235>

Question 1283

True/False: It is possible for a function to have some parameters with default arguments and some without.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741773>

Question 1284

Explain the possible interpretations of a null value.

Answer: <https://biology-forums.com/index.php?topic=740405>

Question 1285

What is the least restrictive isolation level that will prevent dirty reads?

- A) Read Committed
- B) Serializable
- C) Read Uncommitted
- D) Atomic Read
- E) Repeatable Read

Answer: <https://biology-forums.com/index.php?topic=740701>

Question 1286

While traversing a list, a node pointer knows when it has reached the end of a list when:

- A) it encounters a null pointer
- B) it encounters a sentinel, usually 9999
- C) it encounters the newline character
- D) it finds itself back at the beginning of the list
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742224>

Question 1287

Extensible Markup Language (XML) is becoming a standard means for defining the structure of documents and for transmitting documents from one computer to another.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740759>

Question 1288

OLAP reports can be created using the Excel 2013 _____ tool.

Answer: <https://biology-forums.com/index.php?topic=740898>

Question 1289

Hadoop is a(n):

- A) RDMBS.
- B) OODBMS.
- C) distributed file system (DFS).
- D) print system.

E) Web server.

Answer: <https://biology-forums.com/index.php?topic=740875>

Question 1290

Which SQL keyword can be used in conjunction with wildcards to select partial values?

- A) SELECT
- B) SEARCH
- C) FIND
- D) SUBSTRING
- E) LIKE

Answer: <https://biology-forums.com/index.php?topic=740459>

Question 1291

The most commonly used Web server on servers running the UNIX or Linux operating system is Internet Information Services (IIS).

True or False?

Answer: <https://biology-forums.com/index.php?topic=740747>

Question 1292

True/False: You can overload the conditional operator to make it function as an unconditional operator.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742119>

Question 1293

Users should create a MySQL Workspace folder to hold documents created with the MySQL Workbench.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741017>

Question 1294

What is data mining application?

Answer: <https://biology-forums.com/index.php?topic=741373>

Question 1295

For a workstation running the Windows operating system, the user file system permissions Modify and Write must be granted to the Users group at the wwwroot folder.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741252>

Question 1296

True/False: In a binary tree, each node must have a minimum of two children.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742348>

Question 1297

MySQL Community Server 5.6 requires the prior installation of:

- A) the .NET Framework version 3.0.
- B) the .NET Framework version 3.5.
- C) the .NET Framework version 3.5 SP1.
- D) the .NET Framework version 4.5.1.
- E) None of the above—the .NET Framework is not required.

Answer: <https://biology-forums.com/index.php?topic=741029>

Question 1298

For a workstation running the Windows operating system, a commonly used file system utility is Microsoft Internet Explorer.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741250>

Question 1299

In a circular-linked list, the last node points to the _____.

- A) first node
- B) head pointer
- C) tail pointer
- D) closing curly brace of the original structure declaration
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742217>

Question 1300

True/False: The expression *s->p; indicates that s is a structure pointer and p, which is also a pointer, is a member of the structure pointed to by s.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741991>

Question 1301

A structure pointer contains _____.

- A) the name and address of the structure tag
- B) the dereferenced address of a structure tag
- C) the address of a structure variable
- D) the address of a structure tag
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741966>

Question 1302

Which of the following defines a double-precision floating point variable named payCheck?

- A) float payCheck;
- B) payCheck double;
- C) double payCheck;
- D) Double payCheck;

Answer: <https://biology-forums.com/index.php?topic=741539>

Question 1303

SQL query results are displayed in a tabbed results window.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741015>

Question 1304

Microsoft Access is a(n) _____, which combines a DBMS and an application generator.

Answer: <https://biology-forums.com/index.php?topic=740306>

Question 1305

Distinguish between the HAVING clause and the WHERE clause.

Answer: <https://biology-forums.com/index.php?topic=740503>

Question 1306

In Microsoft Access, standard SQL table creation syntax items not supported by Access SQL can generally be implemented by:

- A) setting the Data Types in Access table Design View.
- B) setting the field properties in Access table Design View.
- C) setting the relationship properties in the Edit Relationship dialog box.
- D) setting the referential integrity properties in the Edit Relationship dialog box.
- E) running an ALTER TABLE query in Access SQL.

Answer: <https://biology-forums.com/index.php?topic=740474>

Question 1307

A file must be _____ before data can be written to or read from it.

- A) opened
- B) initialized

- C) closed
- D) buffered
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741706>

Question 1308

These are used to declare variables that can hold real numbers.

- A) Long data types
- B) Integer data types
- C) Floating point data types
- D) Real data types
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741530>

Question 1309

Which of the following is a function of the DBMS in a database system?

- A) Create and transmit queries
- B) Control applications
- C) Create and process forms
- D) Perform backup and recover
- E) Process Web page requests

Answer: <https://biology-forums.com/index.php?topic=740284>

Question 1310

Look at the following statement.

```
while (x++ < 10)
```

Which operator is used first?

- A) <
- B) ++
- C) Neither. The expression is invalid.

Answer: <https://biology-forums.com/index.php?topic=741679>

Question 1311

This type of function is not a member of a class, but it has access to the private members of the class.

- A) friend
- B) constructor
- C) static
- D) destructor
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742100>

Question 1312

The default cardinality for elements in an XML Schema is _____.

Answer: <https://biology-forums.com/index.php?topic=741448>

Question 1313

In the following code, assume the myStack object is a stack that can hold integers, and that value is an int variable. (The lines are numbered for reference purposes.)

```
1 myStack.push(0);
2 myStack.push(1);
3 myStack.push(2);
4 myStack.pop(value);
5 myStack.push(3);
6 myStack.pop(value);
7 cout << value << endl;
```

Assume that the pop function, called in lines 4 and 6, stores the number popped from the stack in the value variable.

What will the statement in line 7 display?

- A) 0
- B) 1
- C) 2

- D) 3
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742275>

Question 1314

Subtype entities may be either exclusive or inclusive.
True or False?

Answer: <https://biology-forums.com/index.php?topic=740525>

Question 1315

True/False: If you do not declare a destructor function, the compiler will furnish one automatically.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742082>

Question 1316

Which of the following expressions will determine whether x is less than or equal to y?

- A) $x \leq y$
- B) $x > y$
- C) $x \geq y$
- D) $x \leq y$

Answer: <https://biology-forums.com/index.php?topic=741654>

Question 1317

When member functions behave differently, depending upon which object performed the call, this is an example of _____.

- A) polymorphism
- B) virtual insubordination
- C) chaos theory
- D) encapsulation
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742148>

Question 1318

The MySQL GUI tool is replaced by:

- A) MySQL Query Browser.
- B) MySQL Administrator.
- C) My SQL Workbench.
- D) Both A and B
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741030>

Question 1319

Usually, a database table containing both rows and columns is designed to store data for exactly two themes.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740249>

Question 1320

True/False: It is possible to declare an entire class as a friend of another class.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742121>

Question 1321

Refer to the table above. What is the definition of support for Drug A and Drug B?

- A) The probability that Drug A will be purchased
- B) The probability that Drug B will be purchased
- C) The probability that both Drug A and Drug B will be purchased
- D) The probability that Drug A will be purchased given that Drug B has been purchased
- E) The probability that Drug B will be purchased given that Drug A has been purchased

Answer: <https://biology-forums.com/index.php?topic=741348>

Question 1322

Which statement displays the address of the variable num1?

- A) cout << *num1;
- B) cin >> &num1;
- C) cout << &num1;
- D) cout << num1;
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741880>

Question 1323

The SQL statement ALTER EXISTING VIEW ViewName AS is used to modify a view.
True or False?

Answer: <https://biology-forums.com/index.php?topic=741083>

Question 1324

The _____ algorithm uses recursion to efficiently sort a list.

- A) quicksort
- B) red/black sort
- C) shell sort
- D) binary sort
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742295>

Question 1325

True/False: When you pass an array as an argument to a function, the function can modify the contents of the array.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741829>

Question 1326

When a program lets the user know that an invalid choice has been made, this is known as:

- A) output correction
- B) output validation
- C) compiler criticism
- D) input validation
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741635>

Question 1327

True/False: A variable called "average" should be declared as an integer data type because it will probably hold data that contains decimal places.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741558>

Question 1328

Objects are created from abstract data types that encapsulate _____ and _____ together.

- A) numbers, characters
- B) addresses, pointers
- C) integers, floats
- D) data, functions
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742040>

Question 1329

If you do not furnish one of these a default will be provided for you by the compiler.

- A) destructor
- B) constructor

- C) copy constructor
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742102>

Question 1330

Users can click the _____ button to enable or disable the SQL editor windows set of outlining and auto-completion features.

Answer: <https://biology-forums.com/index.php?topic=740950>

Question 1331

A relational database can be defined as a self-describing collection of related tables.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740255>

Question 1332

The CAP Theorem defines three properties of distributed database systems, which are:

- A) consistency, always-on, properties.
- B) competency, always-on, properties.
- C) consistency, availability, partition tolerance.
- D) competency, availability, partition tolerance.
- E) consistency, availability, properties.

Answer: <https://biology-forums.com/index.php?topic=741414>

Question 1333

Every DBMS product uses the same API.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740744>

Question 1334

What is the NetBeans IDE?

Answer: <https://biology-forums.com/index.php?topic=740816>

Question 1335

Database security is easy to achieve since all security is handled by the DBMS, which is a single point of entry into the database.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740677>

Question 1336

Which of the following data types used in SQL would define a numeric field of the pattern 99.99?

- A) integer(2,2)
- B) integer(5,2)
- C) numeric(2,2)
- D) numeric(4,2)
- E) numeric(5,2)

Answer: <https://biology-forums.com/index.php?topic=740446>

Question 1337

True/False: When using the strcat function, you must be careful not to overwrite the bounds of an array.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741936>

Question 1338

Mistakes that cause a running program to produce incorrect results are called:

- A) Syntax errors
- B) Linker errors
- C) Compiler errors
- D) Logic errors
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741483>

Question 1339

To force the DBMS to remove duplicate rows from the results of an SQL SELECT query, the keyword DISTINCT must be used.
True or False?

Answer: <https://biology-forums.com/index.php?topic=740420>

Question 1340

A good reason to pass a structure as a constant reference is _____.

- A) to ensure changes to the structure members
- B) to prevent changes to the structure members
- C) to speed up the function's modification of the structure members
- D) to slow down the function's execution, preventing errors
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741972>

Question 1341

Which of the following statements is not valid C++ code?

- A) float num1 = &ptr2;
- B) int ptr = &num1;
- C) int ptr = int *num1;
- D) All of these are valid.
- E) All of these are invalid.

Answer: <https://biology-forums.com/index.php?topic=741871>

Question 1342

Which of the following is true about representing a weak entity with the relational model?

- A) If the weak entity is existence-dependent, the key of the parent must be part of the key of the weak entity.
- B) If the strong entity has a minimum cardinality of 1, the key of the weak entity must be part of the strong entity.
- C) If the weak entity is ID-dependent, the key of the weak entity must be part of the key of the parent entity.
- D) If the weak entity is ID-dependent, the key of the parent entity must be part of the key of the weak entity.
- E) If the parent entity is existence-dependent, then the minimum cardinality of the weak entity is zero.

Answer: <https://biology-forums.com/index.php?topic=740619>

Question 1343

The key that has been designated the _____ key of a relation functionally determines all the other attributes in the relation.

Answer: <https://biology-forums.com/index.php?topic=740390>

Question 1344

Specify the four categories of NoSQL databases used in the text, and give an example of each.

Answer: <https://biology-forums.com/index.php?topic=741451>

Question 1345

When used to represent a relationship, the primary key must have the same name as the corresponding foreign key.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740332>

Question 1346

An actual instance of the function is created in memory when the compiler encounters _____.

- A) a catch block
- B) a try block
- C) the template prefix
- D) a call to the template function
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742189>

Question 1347

In SQL, the order of the rows that result from a SELECT statement can be set using the SORT BY phrase.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740428>

Question 1348

True/False: Object-oriented programming is centered around the object, which encapsulate together both the data and the functions that operate on the data.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742078>

Question 1349

This is a dummy function that is called instead of the actual function it represents.

- A) driver
- B) main function
- C) stub
- D) overloaded function

Answer: <https://biology-forums.com/index.php?topic=741753>

Question 1350

Look at the following structure declaration.

```
struct Circle
{
    double centerX;
    double centerY;
    double radius;
};
```

Assume that circle1 and circle2 are variables of the Circle type, and their members have been initialized.

True/False: The following if statement correctly determines whether the two variables' members contain the same data:

```
if (circle1 == circle2)
```

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742000>

Question 1351

An entity identifier can be either unique or nonunique.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740517>

Question 1352

This stream manipulator forces cout to print the digits in fixed-point notation.

- A) setw(2)
- B) fixed
- C) setfixed(2)
- D) setprecision(2)
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741588>

Question 1353

Which of the following is a component of a computer-based information system?

- A) Hardware
- B) Software
- C) Data
- D) Procedures
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741162>

Question 1354

To run an SQL script, click the _____ button on the MySQL Workbench toolbar.

Answer: <https://biology-forums.com/index.php?topic=741062>

Question 1355

RFM scores commonly range from _____, with _____ being the "high" or "most desirable" score.

- A) 0 to 5; 0
- B) 0 to 5; 5
- C) 1 to 5, 1
- D) 1 to 5; 5
- E) 1 to 10; 10

Answer: <https://biology-forums.com/index.php?topic=741335>

Question 1356

To run an SQL script in Oracle Database Express Edition 11g Release 2:

- A) click the Execute button.
- B) click the Execute Script button.
- C) click the Run Script button.
- D) click the Ready button.
- E) click the Results button.

Answer: <https://biology-forums.com/index.php?topic=740982>

Question 1357

An insertion or deletion routine requires that you create this many pointers for use during the traversal process.

- A) Two—one for the node being inspected, and one for the previous node.
- B) One—for the node being inserted or deleted
- C) Three—one for the inspected node, one for the next node, and one for the following node
- D) Two—one for the node being inspected, and one for the next node.

Answer: <https://biology-forums.com/index.php?topic=742212>

Question 1358

One deliverable from the requirements analysis step is a statement of requirements (SOR).

True or False?

Answer: <https://biology-forums.com/index.php?topic=741156>

Question 1359

What is the output of the following code?

```
int w = 98;
int x = 99;
int y = 0;
int z = 1;

if (x >= 99)
{
    if (x < 99)
        cout << y << endl;
    else
        cout << z << endl;
}
else
{
    if (x == 99)
        cout << x << endl;
    else
        cout << w << endl;
}
```

- A) 0
- B) 98
- C) 1
- D) 99

Answer: <https://biology-forums.com/index.php?topic=741651>

Question 1360

The NetBeans IDE is installed using a standard Windows operating system installation routine.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741255>

Question 1361

Every DBMS product has an application programming interface (API).

True or False?

Answer: <https://biology-forums.com/index.php?topic=740743>

Question 1362

SQL views can be used to hide rows.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741085>

Question 1363

A reason to overload the _____ is to write classes that have array-like behaviors.

- A) curly braces { } operator
- B) square brackets [] operator
- C) parentheses () operator
- D) colon : : operator
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742097>

Question 1364

True/False: To write to a file, you use the file_write() function.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742036>

Question 1365

To arrange the PivotTable columns and rows in Excel 2013, we use the:

- A) PivotTable Control.
- B) PivotTable dialog box.
- C) PivotTable Field List.
- D) PivotTable Wizard.
- E) PivotTable command tab.

Answer: <https://biology-forums.com/index.php?topic=740879>

Question 1366

True/False: It is possible to output the contents of all members of a structure variable using a cout << statement followed by the name of the structure variable.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741989>

Question 1367

Using standard SQL, unmatched rows will not appear in the result of a join.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740437>

Question 1368

A complete table, including both the table structure and any data in the table, can be removed from the database by using the SQL _____ command.

Answer: <https://biology-forums.com/index.php?topic=740489>

Question 1369

The programmer usually enters source code into a computer using:

- A) A text editor
- B) A compiler

- C) A hierarchy chart
- D) Pseudocode
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741489>

Question 1370

The XML Schema statement xmlns:xsd indicates that _____.

- A) this XML Schema uses a labeled namespace called xsd
- B) this XML Schema is validated at www.xsd.com
- C) this XML Schema is validated at www.xmlns.com using the xsd XML Schema located there
- D) this XML Schema is using a non-standard looping procedure, where xsd is the variable name of the loop increment
- E) the value of the variable xmlns is being set equal to the value of the variable xsd

Answer: <https://biology-forums.com/index.php?topic=741433>

Question 1371

To control the placement of columns and rows in an Excel 2013 PivotTable, we use the _____.

Answer: <https://biology-forums.com/index.php?topic=740906>

Question 1372

When a class contains an instance of another class, it is known as _____.

- A) dynamic composition
- B) operator overloading
- C) object composition
- D) object overloading
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742094>

Question 1373

Each attribute of an entity becomes a(n) _____ of a table.

- A) column
- B) primary key
- C) foreign key
- D) alternate key
- E) B or D

Answer: <https://biology-forums.com/index.php?topic=740611>

Question 1374

Business Intelligence (BI) systems support operational activities.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740823>

Question 1375

What will be the output of the following code segment after the user enters 0 at the keyboard?

```
int x = -1;
cout << "Enter a 0 or a 1 from the keyboard: ";
cin >> x;
if (x)
    cout << "true" << endl;
else
    cout << "false" << endl;
```

- A) true
- B) Nothing will be displayed.
- C) false
- D) x

Answer: <https://biology-forums.com/index.php?topic=741613>

Question 1376

Given the relations:

STUDENT (SID, StudentName, Major, AdvisorID)

ADVISOR (AdvisorID, AdvisorName, Office, Phone)

such that each student is assigned to one advisor, which of the following is true?

- A) SID is both a primary key and a foreign key.
- B) AdvisorName is a determinant.
- C) AdvisorID is a foreign key.
- D) Phone is a candidate key.
- E) Major is a candidate key.

Answer: <https://biology-forums.com/index.php?topic=740361>

Question 1377

Define and discuss an information system.

Answer: <https://biology-forums.com/index.php?topic=741187>

Question 1378

To start working with SQL Server 2014 Express in Windows 8.1, use the command Start | All Programs | Microsoft SQL Server 2014 | SQL Server management Studio Express.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740923>

Question 1379

When using Microsoft Access and IIS, the Web pages that access the database cannot be written using PHP.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740768>

Question 1380

True/False: Nodes in a linked list are stored in contiguous memory.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742241>

Question 1381

The compiler performs _____ on virtual functions.

- A) dynamic binding
- B) static binding
- C) additional error checking
- D) no special services
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742135>

Question 1382

Queues that are implemented as arrays are called _____ queues.

- A) dynamic
- B) deque
- C) stack
- D) static
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742269>

Question 1383

True/False: Local variables are initialized to zero by default.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741778>

Question 1384

Given the table

CUSTOMER(CustID, Name, PhoneNumber, AccountBalance)

write the standard SQL query to retrieve the Name and Phone Number of customers whose name begins with 'S'.

Answer: <https://biology-forums.com/index.php?topic=740501>

Question 1385

A(n) _____ is information that is passed to a function, and a(n) _____ is information that is received by a function.

- A) argument, parameter
- B) prototype, header
- C) parameter, argument
- D) function call, function header
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741744>

Question 1386

Which of the following statements deletes memory that has been dynamically allocated for an array?

- A) `int delete[];`
- B) `delete [] array;`
- C) `int array = delete memory;`
- D) `new array = delete;`
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741872>

Question 1387

An important improvement of XML Schema over DTDs is that XML Schema are _____.

Answer: <https://biology-forums.com/index.php?topic=741445>

Question 1388

MySQL Community Server 5.6 uses DBMS authentication.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741009>

Question 1389

If a local variable and a global variable have the same name within the same program, the _____ resolution operator must be used.

- A) variable
- B) global
- C) ambiguity
- D) scope
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742066>

Question 1390

Microsoft Access 2013 command buttons are created using the Command Button Wizard.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741231>

Question 1391

Column family databases are indistinguishable from relational database tables.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740844>

Question 1392

A possible problem with keeping data in lists is that if you delete a row of data from a list, you may also delete some data items that you want to keep.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740244>

Question 1393

There is usually only one instance of an entity in an entity class.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740515>

Question 1394

Class declarations are usually stored here.

- A) under pseudonyms
- B) on separate disk volumes
- C) in .cpp files, along with function definitions
- D) in their own header files
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742045>

Question 1395

Without this statement appearing in a switch construct, the program "falls through" all of the statements below the one with the matching case expression.

- A) switch
- B) exit
- C) break
- D) scope
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741628>

Question 1396

In market basket analysis, support is defined as the probability that two items will be purchased together.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741315>

Question 1397

Which of the following is not true of surrogate keys?

- A) They are meaningful to the users.
- B) They are numeric.
- C) They are usually generated by the DBMS.
- D) They are unique.
- E) They are usually hidden on forms and reports.

Answer: <https://biology-forums.com/index.php?topic=740364>

Question 1398

True/False: An output file is a file that data is written to.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741724>

Question 1399

To represent a relationship in the relational model, the primary key of one relation is placed into a second relation.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740331>

Question 1400

Which of the following is not a type of trigger that can be invoked before DBMS insert, update, or delete actions?

- A) BEFORE triggers
- B) PREVIOUS triggers
- C) AFTER triggers
- D) INSTEAD OF triggers
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=740769>

Question 1401

JSON stands for Jason Script Object Notation.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741388>

Question 1402

In the MySQL Workbench, a 1:N non-identifying relationship between two tables that already contain the needed primary and foreign keys is created

using:

- A) the 1:N Identifying Relationship button.
- B) the 1:N Non-identifying Relationship button.
- C) the N:M Identifying Relationship button.
- D) the Place a Relationship Using Existing Columns button.
- E) None of the above is correct.

Answer: <https://biology-forums.com/index.php?topic=741048>

Question 1403

In a common form of RFM analysis, an RFM score of 5 1 1 means that the customer orders frequently and orders items of high monetary value but has not ordered anything for some time.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741295>

Question 1404

Before running Web pages in Internet Information Server (IIS) against a Microsoft Access database, we need to create a(n):

- A) ODBC data source.
- B) JDBC data source.
- C) OLE DB data source.
- D) LAMP data source.
- E) WAMP data source.

Answer: <https://biology-forums.com/index.php?topic=740790>

Question 1405

Each object of a class has its own copy of the class's _____.

- A) constructor and destructor functions
- B) member variables
- C) member functions
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742087>

Question 1406

Distinguish between entity identifiers and keys.

Answer: <https://biology-forums.com/index.php?topic=740574>

Question 1407

Which of the following is not true about representing subtypes in a relational database design?

- A) One table is created for the supertype and one for each subtype.
- B) All of the attributes of the supertype are added to the subtype relations.
- C) The key of the supertype is made the key of the subtypes.
- D) A subtype and its supertype are representations of the same underlying table.
- E) An instance of the supertype may be related to one instance each of several subtypes.

Answer: <https://biology-forums.com/index.php?topic=740633>

Question 1408

During the implementation phase of developing a database system, the data model is transformed into a database design.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740506>

Question 1409

Business Intelligence (BI) reporting systems are used to filter data, sort data, group data and make simple calculations based on the data.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740825>

Question 1410

SQL statements can be run individually or as part of a related group of SQL statements known as a:

- A) Result.
- B) Resultset.

- C) Script.
- D) Scriptset.
- E) Commandset.

Answer: <https://biology-forums.com/index.php?topic=740937>

Question 1411

A dynamic stack may be implemented as a(n) _____, and expand or shrink with each push or pop operation.

- A) structure
- B) array
- C) linked list
- D) A and B
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742263>

Question 1412

When you derive a class from an existing class, you _____ add new data and functions.

- A) may
- B) never
- C) must
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=742128>

Question 1413

Hadoop is a(n) _____.

Answer: <https://biology-forums.com/index.php?topic=740902>

Question 1414

Input values should always be checked for:

- A) Reasonableness
- B) Appropriate range
- C) Division by zero, if division is taking place
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741626>

Question 1415

If you do not declare an access specification, the default for members of a class is _____.

- A) global
- B) public
- C) inline
- D) private
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742053>

Question 1416

A common default Web page name recognized by most Web servers is FirstPage.html.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740758>

Question 1417

Methods of traversing a binary tree are:

- A) postorder traversal
- B) inorder traversal
- C) preorder traversal
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742338>

Question 1418

When this operator is used with string operands it concatenates them, or joins them together.

- A) *
- B) %
- C) +
- D) &
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741569>

Question 1419

In Microsoft Visio 2013, for a Relationship object relationship that is one-mandatory on the child side of the relationship, the correct setting in the Symbol menu is:

- A) 1 and only 1.
- B) 1 or more.
- C) Zero or 1.
- D) Zero or more.
- E) Range [At least][At most].

Answer: <https://biology-forums.com/index.php?topic=741220>

Question 1420

To deal with historical data values, dimensional databases use a(n) _____.

Answer: <https://biology-forums.com/index.php?topic=740895>

Question 1421

A point of synchronization between the database and the transaction log is called a(n):

- A) before-image.
- B) after-image.
- C) recovery.
- D) checkpoint.
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=740705>

Question 1422

In C++ 11 you can use a new type of enum, known as a(n) _____, (also known as an enum class) to have multiple enumerators with the same name, within the same scope.

- A) strongly typed enum
- B) auto enum
- C) multi-cast enum
- D) universal enum
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741973>

Question 1423

The value in this type of local variable persists between function calls.

- A) global
- B) dynamic
- C) internal
- D) static
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741735>

Question 1424

Which of the following is the correct SQL clause to sort the results of a SELECT query in reverse-alphabetic order using the Department field?

- A) SORT BY Department
- B) REVERSE Department
- C) ORDER BY Department DESC
- D) SORT BY Department DESC
- E) SORT BY Department REVERSE

Answer: <https://biology-forums.com/index.php?topic=740460>

Question 1425

Describe how to create and run an SQL query in SQL Server 2014 Express.

Answer: <https://biology-forums.com/index.php?topic=740958>

Question 1426

Databases are created in a DBMS during the _____ step.

Answer: <https://biology-forums.com/index.php?topic=741186>

Question 1427

Data Mining uses sophisticated statistical and mathematical techniques to perform what-if analyses, to make predictions, and to facilitate decision making.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740828>

Question 1428

True/False: Although C++ provides ample library functions to handle numeric values, we must write all of our own functions to manipulate character values.

A) True

B) False

Answer: <https://biology-forums.com/index.php?topic=741945>

Question 1429

An SQL data type of _____ means that values consist of seven decimal numbers with two numbers assumed to the right of the decimal point.

Answer: <https://biology-forums.com/index.php?topic=740480>

Question 1430

SQL statements can be run individually or as part of a related group of SQL statements known as a(n) _____.

Answer: <https://biology-forums.com/index.php?topic=740948>

Question 1431

Compare and contrast subqueries and joins.

Answer: <https://biology-forums.com/index.php?topic=740504>

Question 1432

A function _____ contains the statements that make up the function.

A) parameter list

B) prototype

C) expression

D) call

E) definition

Answer: <https://biology-forums.com/index.php?topic=741729>

Question 1433

The SQL keyword _____ can be used with SELECT statements retrieving view instances to sort the results of the SELECT.

Answer: <https://biology-forums.com/index.php?topic=741130>

Question 1434

Which of the following are components of a data warehouse?

A) Data extract, transform, and load (ETL) preparation programs

B) Data warehouse data

C) Data warehouse metadata

D) B and C

E) A, B and C

Answer: <https://biology-forums.com/index.php?topic=741330>

Question 1435

If you do not furnish one of these, an automatic memberwise copy will be performed when one object is assigned to another object.

A) default constructor function

B) overloaded constructor function

- C) overloaded copy operator
- D) overloaded assignment operator
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742095>

Question 1436

True/False: If a function is legally prototyped to return an integer value, it can return a structure member that is an integer data type.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741986>

Question 1437

Database designs are created during the _____ step of the SDLC.

- A) system definition
- B) requirements analysis
- C) component design
- D) implementation
- E) systems maintenance

Answer: <https://biology-forums.com/index.php?topic=741169>

Question 1438

In comparison to reprocessing, rollforward does not involve the application programs.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740680>

Question 1439

What is the value of donuts after the following code executes?

```
int donuts = 10;
```

```
if (donuts != 10)
    donuts = 0;
else
    donuts += 2;
```

- A) 10
- B) 2
- C) 0
- D) 12

Answer: <https://biology-forums.com/index.php?topic=741645>

Question 1440

True/False: It is possible for a structure variable to be a member of another structure variable.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741990>

Question 1441

A surrogate key may be appropriate under which of the following circumstances?

- A) The available candidate keys would produce a lot of data duplication when representing relationships.
- B) The primary key is numeric.
- C) The available candidate keys would be prone to typographical errors.
- D) The available candidate keys have little meaning to the users.
- E) Both A and C

Answer: <https://biology-forums.com/index.php?topic=740363>

Question 1442

True/False: Recursive algorithms are less efficient than iterative algorithms.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742311>

Question 1443

In a for statement, this expression is executed only once.

- A) test
- B) initialization
- C) null
- D) validation
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741672>

Question 1444

If a weak entity is ID-dependent but not existence-dependent, it can be represented using the same techniques as a strong entity. True or False?

Answer: <https://biology-forums.com/index.php?topic=740584>

Question 1445

The CAP theorem defines the three properties of _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=741443>

Question 1446

The purpose of a memory address is:

- A) To prevent multitasking
- B) To improve the effectiveness of high-level languages
- C) To identify the location of a byte in memory
- D) To obtain an algorithm
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741459>

Question 1447

While the relational model for databases appears to hold much promise, few commercial databases have implemented it. True or False?

Answer: <https://biology-forums.com/index.php?topic=740322>

Question 1448

MySQL Workbench version _____ was generally available when this text was written.

Answer: <https://biology-forums.com/index.php?topic=741053>

Question 1449

Which of the following statements outputs the value of the gpa member of element 1 of the student array?

- A) `cout << firstStudent.gpa;`
- B) `cout << student1->gpa;`
- C) `cout << student[1].gpa;`
- D) `cout << student1.gpa;`
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741970>

Question 1450

In SQL Server, the starting value of a surrogate key is called the:

- A) Identity.
- B) Identity Increment.
- C) Identity Start.
- D) Identity Seed.
- E) Identity Property.

Answer: <https://biology-forums.com/index.php?topic=740365>

Question 1451

In the normalization process, if you find a candidate key that is not a determinant then you should:

- A) place the columns of the functional dependency in a new relation.
- B) make the determinant of the functional dependency the primary key of the new relation.

- C) leave a copy of the determinant as a foreign key in the original relation.
D) All of the above
E) None of the above

Answer: <https://biology-forums.com/index.php?topic=740376>

Question 1452

Problematic data are called _____.

Answer: <https://biology-forums.com/index.php?topic=741358>

Question 1453

When using Microsoft Access and IIS, the connection to the Access database must be provided by using a(n) _____.

Answer: <https://biology-forums.com/index.php?topic=740807>

Question 1454

True/False: If a file already exists, you can open it with the flags ios::in | ios::out to preserve its contents.

- A) True
B) False

Answer: <https://biology-forums.com/index.php?topic=742035>

Question 1455

When a member function is defined outside of the class declaration, the function name must be qualified with the _____.

- A) class name, followed by a semicolon
B) name of the first object
C) class name, followed by the scope resolution operator
D) private access specifier
E) None of these

Answer: <https://biology-forums.com/index.php?topic=742065>

Question 1456

The use of the XML Schema expression minOccurs="0" _____.

- A) is an XML Schema default
B) is required as there are no defaults in an XML Schema
C) is similar to the SQL schema NULL constraint
D) A and C
E) B and C

Answer: <https://biology-forums.com/index.php?topic=741439>

Question 1457

Two primary queue operations are:

- A) enqueue and dequeue
B) onqueue and offqueue
C) insert and delete
D) push and pop
E) None of these

Answer: <https://biology-forums.com/index.php?topic=742252>

Question 1458

Problematic data are called _____.

Answer: <https://biology-forums.com/index.php?topic=740887>

Question 1459

A(n) _____ is a collection of data that addresses a particular component or functional area of a business.

Answer: <https://biology-forums.com/index.php?topic=740890>

Question 1460

The purpose of the _____ in a database system is to receive requests from applications and to translate those requests into reads and writes on the database files.

Answer: <https://biology-forums.com/index.php?topic=740301>

Question 1461

Recursive relationships can be represented in the relational model using the same techniques that are used for binary relationships. True or False?

Answer: <https://biology-forums.com/index.php?topic=740604>

Question 1462

Microsoft Access queries cannot use previously stored view equivalent Access queries.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741104>

Question 1463

When distributed databases break the database into sections and store the sections on different servers, this is known as:

- A) replication.
- B) partitioning.
- C) disbursing.
- D) distributed two-phase locking.
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=740870>

Question 1464

Given the following declaration, where is the value 77 stored in the scores array?

```
int scores[] = {83, 62, 77, 97};
```

- A) scores[4]
- B) scores[2]
- C) scores[1]
- D) scores[0]

Answer: <https://biology-forums.com/index.php?topic=741798>

Question 1465

The default cardinality for elements in an XML Schema is _____.

- A) 0.1
- B) 1.1
- C) 1.N
- D) N.1
- E) M.N

Answer: <https://biology-forums.com/index.php?topic=741438>

Question 1466

Refer to the table above. What is the definition of confidence for Drug B with reference to Drug A?

- A) The probability that Drug A will be purchased
- B) The probability that Drug B will be purchased
- C) The probability that both Drug A and Drug B will be purchased
- D) The probability that Drug A will be purchased given that Drug B has been purchased
- E) The probability that Drug B will be purchased given that Drug A has been purchased

Answer: <https://biology-forums.com/index.php?topic=741350>

Question 1467

True/False: One purpose that constructor functions are often used for is to allocate memory that will be needed by the object.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742084>

Question 1468

What will the following code display?

```
int number = 6;  
++number;  
cout << number << endl;
```

- A) 6

- B) 5
- C) 7
- D) 0

Answer: <https://biology-forums.com/index.php?topic=741694>

Question 1469

The Microsoft Access 2013 data type of AutoNumber is used when there is a specific need for a:

- A) foreign key.
- B) primary key.
- C) surrogate key.
- D) spare key.
- E) secondary key.

Answer: <https://biology-forums.com/index.php?topic=740295>

Question 1470

True/False: A struct can contain members with varying data types.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741980>

Question 1471

Class templates allow you to create one general version of a class without having to _____.

- A) duplicate code to handle multiple data types
- B) write any code
- C) use private members
- D) use member functions
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742176>

Question 1472

When using Microsoft Access and IIS with an ODBC data source, the ODBC data source should be a(n) _____.

Answer: <https://biology-forums.com/index.php?topic=740808>

Question 1473

True/False: The C++ compiler performs strict array bounds checking when it encounters an array of characters.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741937>

Question 1474

True/False: A while loop is somewhat limited, because the counter can only be incremented by one each time through the loop.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741714>

Question 1475

Multiple inheritance is when a _____ class has _____ base classes.

- A) derived, no
- B) compound, more than two
- C) base, no
- D) derived, two or more
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742151>

Question 1476

Conditions in an SQL INSERT command and after the SQL _____ keyword require single quotes around values for Char and VarChar columns, but not around values for Integer and Numeric columns.

Answer: <https://biology-forums.com/index.php?topic=740483>

Question 1477

Static stacks have a _____ size, and are implemented as _____.

- A) variable, linked lists
- B) variable, arrays
- C) fixed, linked lists
- D) fixed, arrays
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742260>

Question 1478

SQL triggers are used for _____.

- A) validity checking
- B) providing default values
- C) updating views
- D) A and B
- E) A, B, and C

Answer: <https://biology-forums.com/index.php?topic=741120>

Question 1479

Graph databases are composed of _____.

Answer: <https://biology-forums.com/index.php?topic=741449>

Question 1480

The DBMS is used to create the database itself.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740259>

Question 1481

A reporting system does not maintain a database of metadata.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741296>

Question 1482

Once a table has been defined, it should be examined according to _____ criteria.

Answer: <https://biology-forums.com/index.php?topic=740642>

Question 1483

XML documents and XML Schemas are created in different languages.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741400>

Question 1484

When using SQL to create a table, a column is defined by declaring, in this order: data type, column name, and optional constraints.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740411>

Question 1485

Installing PHP using the Microsoft Installer provides sufficient PHP support for use with Database Concepts 7th Edition.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741259>

Question 1486

If a function is called more than once in a program, the values stored in the function's local variables do not _____ between function calls.

- A) change
- B) persist
- C) execute
- D) communicate

E) None of these

Answer: <https://biology-forums.com/index.php?topic=741748>

Question 1487

When Microsoft Access 2013 uses user-level security with an Access 2003 file, the database is stored in a(n) *.accdb file.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740687>

Question 1488

Market basket analysis as described in the text uses the technique of conditional probabilities.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741314>

Question 1489

It is _____ to pass an argument to a function that contains an individual array element, such as numbers[3].

- A) legal in C++
- B) illegal in C++
- C) not recommended by the ANSI committee
- D) not good programming practice
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741809>

Question 1490

To create a 1:1 relationship between two tables in Microsoft Access, the Indexed property of the foreign key column must be set to _____.

Answer: <https://biology-forums.com/index.php?topic=740651>

Question 1491

The head pointer, anchored at the top of a binary tree, is called the _____.

- A) root node
- B) binary pointer
- C) tree pointer
- D) Either A or C
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742329>

Question 1492

If you intend to place a block of statements within an if statement, you must place these around the block.

- A) Angle brackets < >
- B) Square brackets []
- C) Parentheses ()
- D) Curly braces { }
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741632>

Question 1493

A function can have zero to many parameters, and it can return this many values.

- A) no
- B) a maximum of ten
- C) zero to many
- D) only one
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741730>

Question 1494

If an exception is thrown by a member function of a class object, then the class _____ is called.

- A) constructor
- B) destructor
- C) handler
- D) catcher

E) None of these

Answer: <https://biology-forums.com/index.php?topic=742171>

Question 1495

The _____ causes the contents of another file to be inserted into a program.

- A) #include directive
- B) Semicolon
- C) Pound sign
- D) Backslash
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741509>

Question 1496

The DBMS receives data update requests from the application program.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740262>

Question 1497

What does the term hardware refer to?

- A) The way a computer's storage space is organized
- B) The relative difficulty of programming
- C) The logical flow of instructions
- D) The physical components that a computer is made of
- E) None of the above.

Answer: <https://biology-forums.com/index.php?topic=741423>

Question 1498

In a procedural program, you typically have _____ stored in a collection of variables, and a set of _____ that perform operations on the data.

- A) data, functions
- B) numbers, arguments
- C) parameters, arguments
- D) strings, operators
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742054>

Question 1499

Which value can be entered to cause the following code segment to display the message:

"That number is acceptable."

```
int number;
cin >> number;
if (number > 10 && number < 100)
    cout << "That number is acceptable.\n";
else
    cout << "That number is not acceptable.\n";
```

- A) 0
- B) 10
- C) 99
- D) 100
- E) All of these

Answer: <https://biology-forums.com/index.php?topic=741652>

Question 1500

The SQL statement _____ is used to modify a view.

Answer: <https://biology-forums.com/index.php?topic=741131>

Question 1501

Which of the following is not included in Michael Porter's list of support activities?

- A) Technology management
- B) Customer service
- C) Human resources management

- D) Firm infrastructure management
- E) All of above are considered support activities.

Answer: <https://biology-forums.com/index.php?topic=741164>

Question 1502

You may define a _____ in the initialization expression of a for loop.

- A) new data type
- B) function
- C) constant
- D) variable
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741673>

Question 1503

Explain how to create a relationship in Microsoft Access.

Answer: <https://biology-forums.com/index.php?topic=740409>

Question 1504

In order, the three-step process of using a file in a C++ program involves:

- A) Open the file, read/write/save data, close the file
- B) Name the file, open the file, delete the file
- C) Insert a disk, open a file, remove the disk
- D) Create the file contents, close the file, name the file
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742003>

Question 1505

For a workstation running the Windows operating system, the user file system permissions Modify and Write must be granted to _____ at the wwwroot folder.

- A) the ISUR_{WebServerName} User
- B) the IAPP_{WebServerName} User
- C) the WebUsers group
- D) the Users group
- E) None of the above is correct.

Answer: <https://biology-forums.com/index.php?topic=741266>

Question 1506

What is the output of the following code segment?

```
n = 1;

while (n <= 5)
    cout << n << ' ';
    n++;
```

- A) 2 3 4 5 6
- B) 1 2 3 4 5
- C) 1 2 3 4
- D) 1 1 1... and on forever
- E) 2 3 4 5

Answer: <https://biology-forums.com/index.php?topic=741665>

Question 1507

What does the following statement do?

```
vector<int> v(10, 2);
```

- A) It creates a vector object with a starting size of 10 and all elements are initialized with the value 2.
- B) It creates a vector object and initializes all the first two elements with the values 10 and 2.
- C) It creates a vector object with a starting size of 2 and the first element initialized with the value 10.
- D) It creates a vector object with a starting size of 10 and the first element initialized with the value 2.

Answer: <https://biology-forums.com/index.php?topic=741820>

Question 1508

True/False: If you attempt to store data past an array's boundaries, it is guaranteed that the compiler will issue an error.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741831>

Question 1509

Report delivery is more important for data mining than it is for reporting systems.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741285>

Question 1510

Reports that do not change once prepared are called static reports.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741299>

Question 1511

What is a three-tier architecture?

Answer: <https://biology-forums.com/index.php?topic=740813>

Question 1512

The constructor function's return type is _____.

- A) char
- B) structure pointer
- C) float
- D) int
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742049>

Question 1513

What will the following segment of code output if the value 11 is entered at the keyboard?

```
int number;
cin >> number;
if (number > 0)
    cout << "C++";
else
    cout << "Soccer";
cout << " is ";
cout << "fun" << endl;
```

- A) C++
- B) Soccer is fun
- C) C++fun
- D) C++ is fun
- E) Soccerfun

Answer: <https://biology-forums.com/index.php?topic=741633>

Question 1514

Which of the following is not an SQL trigger?

- A) BEFORE UPDATE
- B) INSTEAD OF UPDATE
- C) BEFORE INSERT
- D) INSTEAD OF CONSTRAINT
- E) AFTER DELETE

Answer: <https://biology-forums.com/index.php?topic=741116>

Question 1515

In the process of translating a source file into an executable file, which of the following is the correct sequence?

- A) Source code, linker, object code, compiler, modified source code, preprocessor, executable code.
- B) Source code, compiler, modified source code, preprocessor, object code, linker, executable code.
- C) Source code, preprocessor, modified source code, compiler, object code, linker, executable code.
- D) Source code, preprocessor, modified source code, linker, object code, compiler, executable code.

E) Preprocessor, source code, compiler, executable code, linker, modified source code, object code.

Answer: <https://biology-forums.com/index.php?topic=741492>

Question 1516

To create a new SQL query, click the _____ button.

Answer: <https://biology-forums.com/index.php?topic=740951>

Question 1517

Which of the following cannot be done using the CONSTRAINT phrase?

- A) Create a single attribute primary key.
- B) Define a foreign key.
- C) Establish a referential integrity constraint.
- D) All of the above can be done using the CONSTRAINT phrase.
- E) None of the above can be done using the CONSTRAINT phrase.

Answer: <https://biology-forums.com/index.php?topic=740450>

Question 1518

It is a good idea to make a copy constructor's parameters _____ by specifying the _____ key word in the parameter list.

- A) static, static
- B) global, global
- C) inline, inline
- D) constant, const
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742096>

Question 1519

The SQL command used to add new data to a table is _____.

Answer: <https://biology-forums.com/index.php?topic=740481>

Question 1520

A database may be used to help people:

- A) track which student is assigned to a particular advisor.
- B) know the current inventory levels of products their company sells.
- C) check on the estimated arrival time of an incoming flight at an airport.
- D) look up their checking account balance over the Internet.
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=740273>

Question 1521

If you leave out the size declarator in an array definition:

- A) you must furnish an initialization list
- B) you are not required to initialize the array elements
- C) your array will contain no elements
- D) all array elements default to zero values

Answer: <https://biology-forums.com/index.php?topic=741790>

Question 1522

The statement
SELECT STUDENT.StudentNumber, STUDENT.StudentName,
FROM STUDENT
WHERE STUDENT.StudentNumber = S12345678;
is an example of:

- A) QBE.
- B) SQL.
- C) QLE.
- D) C++.
- E) Java.

Answer: <https://biology-forums.com/index.php?topic=740278>

Question 1523

In crow's foot style E-R diagrams, a circle across the relationship line near an entity indicates:

- A) a minimum cardinality of zero.
- B) a minimum cardinality of one.
- C) a maximum cardinality of one.
- D) a maximum cardinality of many.
- E) Both B and C

Answer: <https://biology-forums.com/index.php?topic=740548>

Question 1524

This is a container that provides quick access to elements at the front and the back of the list.

- A) queue
- B) deque
- C) stack
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742256>

Question 1525

In C++ 11, the _____ key word was introduced to represent the address 0.

- A) NULL
- B) nullptr
- C) weak_ptr
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741865>

Question 1526

Database objects are displayed in the Object Explorer window in the SQL Server Management Studio.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740926>

Question 1527

True/False: Whereas object-oriented programming centers on the object, procedural programming centers on functions.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742072>

Question 1528

Data from a maximum of three tables can be combined through the use of subqueries in SQL.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740434>

Question 1529

In a relational database design, all relationships are expressed by _____.

- A) creating a primary key
- B) creating a foreign key
- C) creating a supertype
- D) creating a subtype
- E) creating a line between entities

Answer: <https://biology-forums.com/index.php?topic=740617>

Question 1530

Which statement is equivalent to the following?

- number += 1;
- A) number = number + 1;
 - B) number = 1;
 - C) number + 1;

D) None of these

Answer: <https://biology-forums.com/index.php?topic=741594>

Question 1531

An array with no elements is _____.

- A) automatically furnished one element, with a value of zero
- B) illegal in C++
- C) legal in C++
- D) automatically furnished one value—the null terminator
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741807>

Question 1532

Explain the process of using optimistic locking.

Answer: <https://biology-forums.com/index.php?topic=740732>

Question 1533

Microsoft Access queries:

- A) can use previously stored view equivalent Access queries.
- B) cannot use previously stored view equivalent Access queries for any purpose.
- C) cannot use previously stored view equivalent Access queries to hide rows.
- D) cannot use previously stored view equivalent Access queries to hide columns.
- E) cannot use previously stored view equivalent Access queries to hide complicated SQL syntax.

Answer: <https://biology-forums.com/index.php?topic=741125>

Question 1534

True/False: In C++ 11, if a derived class attempts to override a final member function, the compiler generates an error.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742166>

Question 1535

Report authoring includes responsibility for delivery of the report.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741304>

Question 1536

True/False: If a C-string that cannot be converted to a numeric value is passed to the atoi function, the function's behavior is undefined by C++.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741943>

Question 1537

In the following code, assume the myQueue object is a queue that can hold integers, and that value is an int variable. (The lines are numbered for reference purposes.)

```
1 myQueue.enqueue(0);
2 myQueue.enqueue(1);
3 myQueue.enqueue(2);
4 myQueue.dequeue(value);
5 cout << value << endl;
```

Assume that the dequeue function, called in line 4, stores the number removed from the queue in the value variable.

What will the statement in line 5 display?

- A) 0
- B) 1
- C) 2
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=742276>

Question 1538

In the following statement:

```
template < class T >
```

What does T represent?

- A) the int data type
- B) a generic data type that is used in a function template
- C) "T" stands for "Template"
- D) the name of the function template
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742175>

Question 1539

The following union declaration appears on a system uses 4-byte ints and 8-byte doubles.

```
union Numbers
{
    int integerNumber;
    double doubleNumber;
};
Numbers myNumber;
myNumber.integerNumber = 1;
```

True/False: After this code executes, the myNumber variable will occupy 4 bytes of memory.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742001>

Question 1540

Graph databases are composed of _____.

- A) Nodes
- B) Properties
- C) Edges
- D) A and C
- E) A, B and C

Answer: <https://biology-forums.com/index.php?topic=741440>

Question 1541

Assume that a program has the following string object definition:

```
string name;
```

Which of the following statements correctly assigns a string literal to the string object?

- A) name = (Jane);
- B) name = 'Jane';
- C) name = "Jane";
- D) name = Jane;

Answer: <https://biology-forums.com/index.php?topic=741552>

Question 1542

It is a good programming practice to _____ your functions by writing comments that describe what they do.

- A) eliminate
- B) document
- C) prototype
- D) execute
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741743>

Question 1543

One advantage of optimistic locking is that the lock is obtained only after the transaction is processed.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740674>

Question 1544

Databases are created in a DBMS during the implementation step.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741159>

Question 1545

An SQL virtual table is called a(n) _____.

Answer: <https://biology-forums.com/index.php?topic=741126>

Question 1546

What will the following code display?

```
int number = 6;
cout << ++number << endl;
```

A) 6
B) 5
C) 7
D) 0

Answer: <https://biology-forums.com/index.php?topic=741696>

Question 1547

True/False: In the average case, an item is just as likely to be found near the beginning of an array as near the end.

A) True
B) False

Answer: <https://biology-forums.com/index.php?topic=741854>

Question 1548

A set of well-defined steps for performing a task or solving a problem is known as a(n):

A) Encoded instruction
B) Algorithm
C) Central Processing Unit
D) Hierarchy
E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741472>

Question 1549

Dimensional databases are used for analytical data processing.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740835>

Question 1550

How does Michael Porter define primary or operational business activities?

Answer: <https://biology-forums.com/index.php?topic=741188>

Question 1551

Metadata is the user data stored in the database.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740257>

Question 1552

The SQL statement DROP VIEW ViewName is used to delete a view from a database.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741084>

Question 1553

This statement uses the value of a variable or expression to determine where the program will branch to.

A) associative
B) select
C) scope
D) switch
E) None of these

Answer: <https://biology-forums.com/index.php?topic=741627>

Question 1554

What is the output of the following program?

```
#include <iostream>
using namespace std;
void doSomething(int&);
int main()
{
    int x = 2;
    cout << x << endl;
    doSomething(x);
    cout << x << endl;
    return 0;
}
void doSomething(int& num)
{
    num = 0;
    cout << num << endl;
}
```

- A) 0
0
0
- B) 2
2
2
- C) 2
0
0
- D) 2
0
2

Answer: <https://biology-forums.com/index.php?topic=741756>

Question 1555

Report modes include dynamic and static.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741298>

Question 1556

The ideal primary key is _____.

- A) short
- B) numeric
- C) fixed
- D) A and B
- E) A, B, and C

Answer: <https://biology-forums.com/index.php?topic=740613>

Question 1557

True/False: C++ 11 introduces a function named to_string that converts a numeric value to a string object.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741947>

Question 1558

When transforming an ID-dependent E-R data model relationship into a relational database design and the child entity is designed to use a surrogate key, then _____.

- A) the parent entity must also use a surrogate key
- B) the relationship remains an ID-dependent relationship
- C) the relationship changes to a non-ID-dependent relationship
- D) A and B
- E) A and C

Answer: <https://biology-forums.com/index.php?topic=740630>

Question 1559

Which of the following is true about identifiers of entities?

- A) Identifiers must be unique.
- B) Identifiers are not normally used in a naming role.
- C) The value of an identifier may identify a set of entity instances.
- D) Identifiers may not be more than two attributes.
- E) An identifier in the E-R model is equivalent to a key in the relational model.

Answer: <https://biology-forums.com/index.php?topic=740539>

Question 1560

True/False: If an array is partially initialized, the uninitialized elements will be set to zero.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741837>

Question 1561

Microsoft Access 2013 switchboard command buttons are built using:

- A) the Text Label Wizard.
- B) the Command Button Wizard.
- C) the All Button Wizard.
- D) the Form Wizard.
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741236>

Question 1562

When creating an OLAP report based on Access 2013 data, it is often a good idea to create a(n) _____ query to organize the data needed for the OLAP report.

Answer: <https://biology-forums.com/index.php?topic=740904>

Question 1563

True/False: By default, when an object is assigned to another, each member of one object is copied to its counterpart in the other object.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742112>

Question 1564

True/False: In C++ 11 you can pass a string object as argument to a file stream object's open member function.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741726>

Question 1565

In Microsoft Access, tables are added to a Query window by:

- A) selecting the tables from the Use Table dialog box.
- B) selecting the tables from the Show Table dialog box.
- C) selecting the tables from the Tables section of the Navigation Pane.
- D) selecting the tables from the Queries section of the Navigation Pane.
- E) selecting the tables from the Relationships window.

Answer: <https://biology-forums.com/index.php?topic=740472>

Question 1566

At the heart of a computer is its central processing unit. The CPU's job is:

- A) To carry out the operations commanded by the instructions
- B) To fetch instructions
- C) To produce some outcome or resultant information
- D) All of the above
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741456>

Question 1567

The statements in the body of a while loop may never be executed, whereas the statements in the body of a do-while loop will be executed:

- A) at least twice
- B) never
- C) at least once
- D) as many times as the user wishes
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741670>

Question 1568

XML documents that conform to their DTD are said to be _____.

Answer: <https://biology-forums.com/index.php?topic=741444>

Question 1569

True/False: The preorder method of traversing a binary tree involves processing the node's data, traversing the node's left subtree, then traversing the node's right subtree.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742349>

Question 1570

A file _____ is a small holding section of memory that file-bound information is first written to.

- A) segment
- B) buffer
- C) number
- D) name
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741700>

Question 1571

The programmer must ensure that a recursive function does not become:

- A) an endless loop
- B) a static function
- C) a virtual function
- D) a dynamic function
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742299>

Question 1572

A digital dashboard is an electronic display customized for an individual user.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741297>

Question 1573

The numeric data types in C++ can be broken into two general categories:

- A) singles and doubles
- B) numbers and characters
- C) integer and floating point
- D) real and unreal
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741514>

Question 1574

If an anonymous union is declared globally (outside all functions), it must be _____.

- A) explicitly declared "global"
- B) initialized and used outside any function
- C) declared static

- D) empty
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741960>

Question 1575

In Microsoft Visio 2013, clicking the FILE command tab opens:

- A) the File menu.
- B) the Backstage view.
- C) the Open dialog box.
- D) the Save As dialog box.
- E) the Save dialog box.

Answer: <https://biology-forums.com/index.php?topic=741208>

Question 1576

In a non-linear linked list, a node can point to:

- A) only the next node in sequence
- B) more than one other node, plus the previous node in sequence
- C) all of the other nodes in the list
- D) only the previous node in sequence
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742328>

Question 1577

What concurrent processing problem occurs when a transaction reads a changed record that has not been committed to the database?

- A) Nonrepeatable reads
- B) Phantom reads
- C) Dirty reads
- D) Serialized reads
- E) Unlocked reads

Answer: <https://biology-forums.com/index.php?topic=740693>

Question 1578

True/False: A new node cannot become the first node in the list.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742235>

Question 1579

What problems with storing data on two themes in a list are addressed by database technology?

Answer: <https://biology-forums.com/index.php?topic=740311>

Question 1580

To create a relationship in Microsoft Access, we drag and drop the _____ of a table.

Answer: <https://biology-forums.com/index.php?topic=740396>

Question 1581

What is XML, and why is it useful?

Answer: <https://biology-forums.com/index.php?topic=740817>

Question 1582

When Microsoft Access 2013 secures a database with just a password, the database file will be a(n):

- A) *.accdb file.
- B) *.accdc file.
- C) *.accde file.
- D) *.mdb file.
- E) *.mdw file.

Answer: <https://biology-forums.com/index.php?topic=740709>

Question 1583

A report generated by a reporting system is delivered to the appropriate users via an electronic display customized for each user. This system uses which of the following media?

- A) Paper
- B) Web portal
- C) Digital dashboard
- D) E-mail
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741339>

Question 1584

True/False: When you declare an iterator to work with a container, the compiler automatically chooses the right type.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742205>

Question 1585

Which type of lock assumes that no conflicts will occur?

- A) Optimistic locks
- B) Granular locks
- C) Explicit locks
- D) Shared locks
- E) Open locks

Answer: <https://biology-forums.com/index.php?topic=740697>

Question 1586

In SQL, the NOT keyword can be combined with the IN keyword to form the NOT IN condition for selecting values.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740424>

Question 1587

Microsoft Access 2013 switchboards use _____ as part of the switchboard.

- A) text labels
- B) report labels
- C) Wizard labels
- D) database design labels
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741234>

Question 1588

In Microsoft Visio 2013, the arrow end of the Dynamic connector object points to the table containing the primary key.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741205>

Question 1589

Systems analysis and design is the process of _____ and _____ information systems.

Answer: <https://biology-forums.com/index.php?topic=741180>

Question 1590

True/False: Class objects can be defined prior to the class declaration.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742073>

Question 1591

A stored procedure is invoked automatically by the DBMS whenever certain events occur.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740742>

Question 1592

In the MySQL Workbench, a 1:N non-identifying relationship between two tables that already contain the needed primary and foreign keys is created using the Place a Relationship Using Existing Columns button.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741028>

Question 1593

Deleting a node that has two children offers an opportunity to use:

- A) a function that returns a pointer to a pointer
- B) double indirection
- C) a function parameter that is a pointer to a pointer
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742326>

Question 1594

_____ must be included in any program that uses the cout object.

- A) The header file iostream
- B) Escape sequences
- C) Opening and closing braces
- D) Comments
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741525>

Question 1595

There are cases where it is possible to normalize a table too far, in which case there may be a need for _____.

Answer: <https://biology-forums.com/index.php?topic=740643>

Question 1596

Given the following function definition:

```
void calc (int a, int& b)
{
    int c;
    c = a + 2;
    a = a * 3;
    b = c + a;
}
```

What is the output of the following code fragment that invokes calc?

```
int x = 1;
int y = 2;
int z = 3;
calc(x, y);
cout << x << " " << y << " " << z << endl;
```

- A) 1 2 3
- B) 3 6 3
- C) 1 6 3
- D) 1 14 9
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741741>

Question 1597

Values of existing data can be changed using SQL through the CHANGE command.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740438>

Question 1598

Assuming outFile is a file stream object and number is a variable, which statement writes the contents of number to the file associated with outFile?

- A) number >> outFile;
- B) outFile >> number;
- C) write(outFile, number);

D) outFile << number;

Answer: <https://biology-forums.com/index.php?topic=741704>

Question 1599

Microsoft Access is a good tool for creating mock-ups of forms and reports because:

- A) the form and report generators do not exist within Access itself.
- B) Access forms and reports are very simplistic.
- C) Access wizards make it easy to create the forms and reports.
- D) Access has a version of Microsoft PowerPoint built into it to allow easy creation of PowerPoint slide shows.
- E) Access has a version of Microsoft Excel built into it to allow easy exporting of data to spreadsheets.

Answer: <https://biology-forums.com/index.php?topic=740552>

Question 1600

To run an SQL script or SQL command in SQL Server 2014:

- A) click the Execute button on the SQL Editor Toolbar.
- B) click the Execute button on the Browser Toolbar.
- C) click the Run button on the Query Toolbar.
- D) click the Run button on the Browser Toolbar.
- E) click the Results button on the Query Toolbar.

Answer: <https://biology-forums.com/index.php?topic=740938>

Question 1601

In the MySQL Table Editor, the abbreviation for Primary Key is:

- A) PK
- B) NN
- C) UQ
- D) BIN
- E) AI

Answer: <https://biology-forums.com/index.php?topic=741046>

Question 1602

In XML Schema, the default cardinality of elements is 0.1.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741406>

Question 1603

What will the following code display?

```
cout << "Four" << "score" << endl;
cout << "and" << "seven" << endl;
cout << "years" << "ago" << endl;
```

- A) Four score and seven years ago
- B) Fourscore
andseven
yearsago
- C) Four
score
and
seven
years
ago
- D) Fourscoreandsevenyearsago

Answer: <https://biology-forums.com/index.php?topic=741545>

Question 1604

The PRODUCT entity instance is the collection of all PRODUCT entity classes.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740513>

Question 1605

Look at the following program and answer the question that follows it.


```
1 // This program displays my gross wages.
2 // I worked 40 hours and I make $20.00 per hour.
3 #include <iostream>
4 using namespace std;
5
6 int main()
7 {
8   int hours;
9   double payRate, grossPay;
10
11  hours = 40;
12  payRate = 20.0;
13  grossPay = hours * payRate;
14  cout << "My gross pay is $" << grossPay << endl;
15  return 0;
16 }
```

Which line(s) in this program cause output to be displayed on the screen?

- A) 8 and 9
- B) 14
- C) 15
- D) 13 and 14
- E) 13

Answer: <https://biology-forums.com/index.php?topic=741538>

Question 1606

What is XML, and why is it significantly better than HTML?

Answer: <https://biology-forums.com/index.php?topic=741453>

Question 1607

To dereference a structure pointer, the appropriate operator is _____.

- A) the structure pointer operator, ->
- B) an asterisk, *
- C) the ampersand, &
- D) the dereference operator, <-
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741967>

Question 1608

A report that is sent to users only upon the users' request is called an on-demand report.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741302>

Question 1609

If you use a C++ key word as an identifier, your program will:

- A) Execute with unpredictable results
- B) Compile, link, but not execute
- C) understand the difference and run without problems
- D) not compile
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741526>

Question 1610

True/False: It is not considered good programming practice to declare all of your variables globally.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741779>

Question 1611

How much memory is reserved for a function template?

- A) four bytes

- B) no memory
- C) two bytes
- D) eight bytes
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742186>

Question 1612

In Microsoft Visio 2013, the Crow's Foot Database Notation stencil objects include a Recursive Relationship object.
True or False?

Answer: <https://biology-forums.com/index.php?topic=741198>

Question 1613

True/False: More than one constructor function may be defined for a class.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742076>

Question 1614

True/False: The only difference between the get function and the >> operator is that get reads the first character typed, even if it is a space, tab, or the [Enter] key.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741600>

Question 1615

True/False: You should be careful when using the equality operator to compare floating point values because of potential round-off errors.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741659>

Question 1616

During the design phase of developing a database system, the users are asked about the need for changes to existing forms and reports.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740508>

Question 1617

The end-of-file marker is automatically written _____.

- A) when the program ends
- B) when a file is opened with ios::app
- C) when a file is opened with ios::eof
- D) when a file is closed
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742021>

Question 1618

The name of the Microsoft SQL Server 2014 ODBC Client as it appears the ODBC Data Source Administrator is _____.

Answer: <https://biology-forums.com/index.php?topic=740954>

Question 1619

_____ constrain data values and the processing of the database.

Answer: <https://biology-forums.com/index.php?topic=740565>

Question 1620

In RFM analysis, R stands for "how recently", F stands for "how frequently" and M stands for "how many months."

True or False?

Answer: <https://biology-forums.com/index.php?topic=741292>

Question 1621

C++ 11 introduces the _____ key word to help prevent subtle errors when overriding virtual functions.

- A) virtual
- B) final
- C) override
- D) const
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742156>

Question 1622

When a variable is assigned a number that is too large for its data type, it:

- A) overflows
- B) reverses polarity
- C) exceeds expectations
- D) underflows
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741577>

Question 1623

The range-based for loop, in C++ 11, is designed to work with a built-in variable known as the _____.

- A) range variable
- B) counter variable
- C) i variable
- D) iterator
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741800>

Question 1624

To assign the contents of one array to another, you must use _____.

- A) the equality operator with the array names
- B) the assignment operator with the array names
- C) a loop to assign the elements of one array to the other array
- D) Any of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741801>

Question 1625

To create a 1:1 relationship between two tables in Microsoft Access:

- A) the Indexed property of the foreign key column must be set to No.
- B) the Indexed property of the foreign key column must be set to Yes (Duplicates OK).
- C) the Indexed property of the foreign key column must be set to Yes (No Duplicates).
- D) the Data Type of the foreign key column must be set to AutoNumber.
- E) the Smart Tag property of the foreign key column must be set to Foreign Key.

Answer: <https://biology-forums.com/index.php?topic=740639>

Question 1626

What is the value of cookies after the execution of the following statements?

```
int number = 38, children = 4, cookies;
```

```
cookies = number % children;
```

- A) .5
- B) 2
- C) 0
- D) 9
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741527>

Question 1627

Data is composed of:

- A) facts.
- B) numbers.

- C) information.
- D) A and B
- E) A, B and C

Answer: <https://biology-forums.com/index.php?topic=741160>

Question 1628

True/False: In an inheritance situation, you may not pass arguments to a base class constructor.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742157>

Question 1629

In the relational model, many-to-many relationships cannot be directly represented by relations the way 1:1 and 1:N relationships can. True or False?

Answer: <https://biology-forums.com/index.php?topic=740600>

Question 1630

In the following statement:
class Car : protected Vehicle
_____ is the derived class.

- A) Vehicle
- B) protected
- C) Car
- D) Cannot be determined
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742152>

Question 1631

In the normalization process, if you find that every determinant in a relation is a candidate key then you have determined that:

- A) the relation is well formed.
- B) the relation needs to be broken into two or more new relations.
- C) surrogate keys in the relation may not be correctly linked to other relations.
- D) the relation needs to have foreign keys added in order to be correctly linked to other relations.
- E) referential integrity constraints concerning the relation need to be established.

Answer: <https://biology-forums.com/index.php?topic=740377>

Question 1632

The Microsoft Access application generator is not responsible for:

- A) creating forms.
- B) creating reports.
- C) creating queries.
- D) creating tables.
- E) storing queries.

Answer: <https://biology-forums.com/index.php?topic=740292>

Question 1633

A function is executed when it is:

- A) called
- B) declared
- C) prototyped
- D) defined
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741731>

Question 1634

Look at the following function prototype.

```
int myFunction(double, double, double);
```

How many parameter variables does this function have?

- A) 1
- B) 2

- C) 3
- D) Can't tell from the prototype

Answer: <https://biology-forums.com/index.php?topic=741762>

Question 1635

Microsoft Access 2013 switchboards use text labels as part of the menu.
True or False?

Answer: <https://biology-forums.com/index.php?topic=741229>

Question 1636

The key for an intersection relation is always the combination of the keys of the parent entities.
True or False?

Answer: <https://biology-forums.com/index.php?topic=740602>

Question 1637

Which of the following is an account name for which you would enter a password to connect to a workspace in Oracle SQL Developer?

- A) Your own personal login
- B) The user login associated with the workspace
- C) INTERNAL
- D) A and B
- E) A, B and C

Answer: <https://biology-forums.com/index.php?topic=740978>

Question 1638

In Microsoft Visio 2013, how do we create data models?

Answer: <https://biology-forums.com/index.php?topic=741222>

Question 1639

How are one-to-one recursive relationships addressed using the relational model?

Answer: <https://biology-forums.com/index.php?topic=740661>

Question 1640

The SQL statement _____ is used to delete a view from a database.

Answer: <https://biology-forums.com/index.php?topic=741132>

Question 1641

One definition of _____ is knowledge derived from data.

Answer: <https://biology-forums.com/index.php?topic=741172>

Question 1642

Regardless of the algorithm being used, a search through an array is always performed _____.

- A) beginning with the middle element
- B) from highest to lowest element
- C) from lowest to highest element
- D) using a binary search
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741848>

Question 1643

In a binary tree class, you usually have a pointer as a member that is set to _____.

- A) the root of the tree
- B) the deepest leaf node
- C) the first leaf node
- D) the leftmost child node
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742336>

Question 1644

Most organizations create and use their own database management system (DBMS) products.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740258>

Question 1645

Here is the header for a function named computeValue:

```
void computeValue(int value)
```

Which of the following is a valid call to the function?

- A) void computeValue(int x);
- B) void computeValue(10);
- C) computeValue(10);
- D) computeValue(10)

Answer: <https://biology-forums.com/index.php?topic=741764>

Question 1646

Which of the following terms is synonymous with "tuple"?

- A) Attribute
- B) Table
- C) Field
- D) Row
- E) Relation

Answer: <https://biology-forums.com/index.php?topic=740354>

Question 1647

In the normalization process, if you find that every determinant in a relation is a candidate key, then you have determined that the relation is well formed.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740346>

Question 1648

The document type declaration for an XML document begins with the keyword _____.

- A) XML
- B) DTD
- C) TYPE
- D) DOCTYPE
- E) TYPEDECL

Answer: <https://biology-forums.com/index.php?topic=741426>

Question 1649

This data type can be used to create files, read data from them, and write data to them.

- A) stream
- B) ofstream
- C) ifstream
- D) fstream
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742005>

Question 1650

A _____ variable is declared outside all functions.

- A) counter
- B) floating-point
- C) global
- D) local
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741747>

Question 1651

XML Schema is used to define _____.

- A) document content and structure
- B) XQL queries

- C) DOM-compliant parsers
- D) DTDs
- E) XPath searches

Answer: <https://biology-forums.com/index.php?topic=741430>

Question 1652

The process of stepping through the nodes of a binary tree is known as _____.

- A) climbing
- B) branching out
- C) walking through
- D) traversing
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742322>

Question 1653

A function template's prefix contains _____ enclosed in angled brackets.

- A) constant values
- B) the function definition
- C) one or more generic data types
- D) the function's return type
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742188>

Question 1654

When SQL Server 2014 is installed, the SQL Server 2014 ODBC client is:

- A) installed automatically as part of the installation.
- B) installed manually as a separate part of the installation process.
- C) not installed, and must be downloaded and installed manually.
- D) not installed because there is no ODBC client for SQL Server 2014.
- E) Either A or B

Answer: <https://biology-forums.com/index.php?topic=740940>

Question 1655

Table and relationship properties not supported by Microsoft Access SQL can usually be set _____ in the appropriate window or dialog box.

Answer: <https://biology-forums.com/index.php?topic=740494>

Question 1656

Which line in the following program will cause a compiler error?

```
1 #include <iostream>
2 using namespace std;
3
4 int main()
5 {
6     int number = 5;
7
8     if (number >= 0 && <= 100)
9         cout << "passed.\n";
10    else
11        cout << "failed.\n";
12    return 0;
13 }
```

- A) 9
- B) 10
- C) 6
- D) 8

Answer: <https://biology-forums.com/index.php?topic=741653>

Question 1657

True/False: When arguments must be passed to the base class constructor, they are passed from the derived class constructor's header line.

- A) True

B) False

Answer: <https://biology-forums.com/index.php?topic=742161>

Question 1658

The _____ of a variable is limited to the block in which it is declared.

- A) scope
- B) associativity
- C) branching ability
- D) precedence
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741642>

Question 1659

Serializable transactions are created by having a(n) _____ phase, in which locks are obtained, and a(n) _____ phase, in which locks are released.

Answer: <https://biology-forums.com/index.php?topic=740717>

Question 1660

The purpose of concurrency control is to ensure that one user's work does not inappropriately influence another user's work. True or False?

Answer: <https://biology-forums.com/index.php?topic=740665>

Question 1661

This loop is a good choice when you know how many times you want the loop to iterate in advance of entering the loop.

- A) while
- B) do-while
- C) for
- D) infinite
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741687>

Question 1662

Rollback requires the use of logs, but rollforward does not. True or False?

Answer: <https://biology-forums.com/index.php?topic=740681>

Question 1663

How many times will the following loop display "Hello"?

```
for (int i = 0; i < 20; i++)  
    cout << "Hello!" << endl;
```

- A) 20
- B) 19
- C) 21
- D) An infinite number of times

Answer: <https://biology-forums.com/index.php?topic=741708>

Question 1664

The QuickSort algorithm is used to sort _____.

- A) tree data structures
- B) lists stored in arrays or linear linked lists
- C) randomly-ordered files
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742304>

Question 1665

To run an SQL script or SQL command in MySQL Server Community Edition:

- A) click the Execute button on the Query Toolbar.
- B) click the Execute button on the Browser Toolbar.

- C) click the Run button on the Query Toolbar.
- D) click the Run button on the Browser Toolbar.
- E) click the Execute SQL Script button on the Toolbar.

Answer: <https://biology-forums.com/index.php?topic=741035>

Question 1666

A relational database is:

- A) a self-describing collection of related tables.
- B) a collection of forms and reports that support a given purpose.
- C) a library of queries and data files for querying.
- D) a set of applications and the data sets for those applications.
- E) a set of metadata.

Answer: <https://biology-forums.com/index.php?topic=740280>

Question 1667

The DBMS controls _____ by ensuring that one user's work does not inappropriately interfere with another user's work.

Answer: <https://biology-forums.com/index.php?topic=740303>

Question 1668

Microsoft Access 2013 can secure database files by storing them in a(n) _____.

Answer: <https://biology-forums.com/index.php?topic=740723>

Question 1669

What is a data warehouse?

Answer: <https://biology-forums.com/index.php?topic=740911>

Question 1670

A function _____ eliminates the need to place a function definition before all calls to the function.

- A) header
- B) argument
- C) parameter
- D) prototype
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741746>

Question 1671

In crow's foot style E-R diagrams, a crow's foot mark on the relationship line near an entity indicates:

- A) a minimum cardinality of zero.
- B) a minimum cardinality of one.
- C) a maximum cardinality of one.
- D) a maximum cardinality of many.
- E) Both B and C

Answer: <https://biology-forums.com/index.php?topic=740549>

Question 1672

The default file extension for text files created for or within SQL Developer is .sql.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740966>

Question 1673

Given the table STUDENT(StudentID, Name, Advisor), which of the following SQL statements would be used to change the value of the Advisor field to 'Smith' for all rows in the STUDENT table?

- A) UPDATE STUDENT SET Advisor = 'Smith';
- B) MODIFY STUDENT SET Advisor = 'Smith';
- C) MODIFY Advisor SET STUDENT = 'Smith';
- D) UPDATE Advisor = 'Smith';
- E) SET STUDENT Advisor = 'Smith';

Answer: <https://biology-forums.com/index.php?topic=740467>

Question 1674

True/False: Deleting an entire list simply requires the use of the delete operator.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742243>

Question 1675

Users should create a Data Models folder to hold EER models created with the MySQL Workbench.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741018>

Question 1676

In the following code, assume the myStack object is a stack that can hold integers, and that value is an int variable. (The lines are numbered for reference purposes.)

```
1 myStack.push(0);
2 myStack.push(1);
3 myStack.push(2);
4 myStack.pop(value);
5 myStack.pop(value);
6 myStack.pop(value);
7 cout << value << endl;
```

Assume that the pop function, called in lines 4, 5, and 6, stores the number popped from the stack in the value variable.

What will the statement in line 7 display?

- A) 0
- B) 1
- C) 2
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=742274>

Question 1677

_____ queues are more intuitive and easier to understand than _____ queues.

- A) Static, dynamic
- B) Stack-like, deque-like
- C) Deque-like, stack-like
- D) Dynamic, static
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742257>

Question 1678

To write data to a file, you define an object of this data type.

- A) outputFile
- B) ofstream
- C) fstream
- D) ifstream

Answer: <https://biology-forums.com/index.php?topic=741702>

Question 1679

Briefly explain the strategy of two-phased locking.

Answer: <https://biology-forums.com/index.php?topic=740730>

Question 1680

What is the value stored at x, given the statements:

```
int x;
```

```
x = 3 / static_cast<int>(4.5 + 6.4);
```

- A) .275229
- B) 0
- C) .3
- D) 3.3

E) None of these

Answer: <https://biology-forums.com/index.php?topic=741570>

Question 1681

In a C++ program, two slash marks (//) indicate:

- A) The beginning of a block of code
- B) The beginning of a comment
- C) The end of the program
- D) The end of a statement
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741505>

Question 1682

True/False: You may use the <, >, <=, >=, ==, and != relational operators to compare string objects.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741946>

Question 1683

True/False: A non-static member function may not access a static member variable.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742125>

Question 1684

True/False: Indirect recursion means that a function calls itself n number of times, then processing of the function starts from the first call.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742309>

Question 1685

An important reason for using SQL Server 2014 Express is that it has full SQL capabilities.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740922>

Question 1686

True/False: Programs are commonly referred to as hardware.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741502>

Question 1687

What additional permissions must be assigned before a user can work with files on the IIS Web server?

Answer: <https://biology-forums.com/index.php?topic=741278>

Question 1688

Given the table

CUSTOMER(CustID, Name, PhoneNumber, AccountBalance)

write the standard SQL query to retrieve the Name and Phone Number of customers with a balance greater than 50.

Answer: <https://biology-forums.com/index.php?topic=740500>

Question 1689

The shape of a binary tree is _____.

- A) determined by the programmer
- B) determined by the order in which values are inserted
- C) always balanced
- D) always triangular
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742337>

Question 1690

These are data items whose values do not change while the program is running.

- A) Comments
- B) Integers
- C) Literals
- D) Variables
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741511>

Question 1691

For a workstation running the Windows operating system, the user file system permissions Modify and Write must be granted to the Users group at the _____ folder.

- A) wwwroot
- B) inetpub
- C) web
- D) eclipse
- E) php

Answer: <https://biology-forums.com/index.php?topic=741267>

Question 1692

Microsoft Access supports standard SQL view statements.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741102>

Question 1693

What is a "use case" and how is it used?

Answer: <https://biology-forums.com/index.php?topic=740572>

Question 1694

This is a special function that is called whenever a new object is created and initialized with another object's data.

- A) copy constructor
- B) assignment function
- C) static function
- D) destructor
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742101>

Question 1695

The programming process consists of several steps, which include:

- A) Syntax, Logic, and Error Handling
- B) Input, Processing, and Output
- C) Key Words, Operators, and Punctuation
- D) Design, Creation, Testing, and Debugging
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741460>

Question 1696

Which of the following is true about a shared lock?

- A) It is more restrictive than an implicit lock.
- B) It allows only two transactions to update a record simultaneously.
- C) It locks the item from all access.
- D) It allows reads to the locked item.
- E) It must use a two-phase locking scheme.

Answer: <https://biology-forums.com/index.php?topic=740696>

Question 1697

The Java JDK is installed directly from the Java download page at:

- A) www.java.com.

- B) www.jre.com.
- C) www.jdk.com.
- D) www.sun.com.
- E) www.oracle.com.

Answer: <https://biology-forums.com/index.php?topic=741269>

Question 1698

The first PHP element to be created is the:

- A) Command object.
- B) Connection.
- C) Errors collection.
- D) Parameters collection.
- E) RecordSet object.

Answer: <https://biology-forums.com/index.php?topic=740782>

Question 1699

True/False: Function templates allow you to write a single function definition that works with many different data types.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742203>

Question 1700

The _____ of recursion is the number of times a recursive function calls itself.

- A) type
- B) level
- C) depth
- D) breadth
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742297>

Question 1701

Why do computers fail?

Answer: <https://biology-forums.com/index.php?topic=740736>

Question 1702

To access an array element, use the array name and the element's _____.

- A) data type
- B) subscript
- C) value
- D) name
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741783>

Question 1703

MySQL 5.6 Server Community Edition uses _____ authentication.

Answer: <https://biology-forums.com/index.php?topic=741058>

Question 1704

Database objects are displayed in the _____ window in the SQL Developer.

Answer: <https://biology-forums.com/index.php?topic=740990>

Question 1705

Before a structure can be used, it must be _____.

- A) initialized
- B) dereferenced
- C) declared
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741962>

Question 1706

With PHP, we enclose PHP commands in between the _____ and _____ symbols.

Answer: <https://biology-forums.com/index.php?topic=740802>

Question 1707

What relationship pattern is illustrated in the following schema?

EMPLOYEE (EmployeeID, OfficePhone, Manager)

Manager in EMPLOYEE must exist in EmployeeID in EMPLOYEE

- A) Association relationship
- B) Intersection relationship
- C) Recursive relationship
- D) Strong entity relationship
- E) Supertype/subtype relationship

Answer: <https://biology-forums.com/index.php?topic=740634>

Question 1708

All type-valid XML documents are required to have a DTD.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741394>

Question 1709

A(n) _____ is like a pointer. It is used to access the individual data elements in a container.

- A) subscript indicator
- B) global data finder
- C) iterator
- D) element access operator
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742179>

Question 1710

These operators connect two or more relational expressions into one, or reverse the logic of an expression.

- A) irrational
- B) negation
- C) relational
- D) logical
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741636>

Question 1711

Protected members of a base class are like _____, but they may be accessed by derived classes.

- A) private members
- B) public members
- C) static members
- D) constructor functions
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742145>

Question 1712

Given only the following excerpt of an E-R model:

Which of the following is known to be true?

- A) There are more instances of ENTITY A than there are instances of ENTITY B in the user's environment.
- B) A single instance of ENTITY B may be related to many instances of ENTITY A.
- C) A single instance of ENTITY A must be related to many instances of ENTITY B.
- D) ENTITY A has a minimum cardinality of one.
- E) The degree of the relationship is "many."

Answer: <https://biology-forums.com/index.php?topic=740541>

Question 1713

There is no reason for serious database developers to learn many aspects of database processing technology because DBMS products like Microsoft Access hide these aspects.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740267>

Question 1714

To handle an exception that has been thrown, a program must have a(n) _____.

- A) unrecoverable error
- B) fatal error
- C) try/catch construct
- D) throw() function
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742182>

Question 1715

When using an ODBC data source with IIS and Microsoft Access, we should use:

- A) a file data source.
- B) a system data source.
- C) a user data source.
- D) a LAMP data source.
- E) a WAMP data source.

Answer: <https://biology-forums.com/index.php?topic=740791>

Question 1716

This allows you to access structure members.

- A) dot operator
- B) #include <structaccess> directive
- C) structure access operator
- D) getmember function
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741964>

Question 1717

By separating data into tables containing data on only one theme each, making changes to the data is simplified.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740250>

Question 1718

The SQL keyword(s) _____ mean(s) that a value must be supplied before a new row can be created.

Answer: <https://biology-forums.com/index.php?topic=740478>

Question 1719

If you want a user to enter exactly 20 values, which loop would be the best to use?

- A) for
- B) do-while
- C) infinite
- D) while
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741690>

Question 1720

Microsoft Access:

- A) supports standard SQL view statements.
- B) only supports SQL view statements as QBE constructions.
- C) can store a view equivalent Access query.
- D) can store a view equivalent Access query but does not provide a means to use it.
- E) cannot store any database object that is equivalent to an SQL view.

Answer: <https://biology-forums.com/index.php?topic=741124>

Question 1721

This manipulator is used to establish a field width for the value immediately following it.

- A) set_field
- B) iomanip
- C) setw
- D) field_width
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741578>

Question 1722

True/False: Deleting an entire list requires traversing the list, deleting each node one by one.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742236>

Question 1723

In XML Schema, the default minimum cardinality can be overridden using the minOccurs attributes.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741407>

Question 1724

Explain two methods for defining a primary key using SQL.

Answer: <https://biology-forums.com/index.php?topic=740499>

Question 1725

We have obtained access to the company's operational data. We have been asked to produce a report with an item by item analysis of sales, but the only sales figure available is the total sale value for each order. This is an example of:

- A) dirty data.
- B) inconsistent data.
- C) nonintegrated data.
- D) a "wrong format" problem.
- E) a "too much data" problem.

Answer: <https://biology-forums.com/index.php?topic=741328>

Question 1726

Every relation is a table, but not every table is a relation.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740324>

Question 1727

Since an SQL view is essentially a stored query, Microsoft Access queries can be used to implement SQL view equivalents.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741103>

Question 1728

Data mining techniques are used to find patterns and relationships that can be used to:

- A) report.
- B) classify.
- C) predict.
- D) Both B and C
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741343>

Question 1729

True/False: A vector object automatically expands in size to accommodate the items stored in it.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741838>

Question 1730

Database objects are displayed in the Object Browser window in the MySQL Workbench.
True or False?

Answer: <https://biology-forums.com/index.php?topic=741010>

Question 1731

All type parameters defined in a function template must appear at least once in the _____.

- A) type.h file
- B) preprocessor directives
- C) function parameter list
- D) function call
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742187>

Question 1732

In C++ 11, if you want an integer literal to be treated as a long long int, you can append _____ at the end of the number.

- A) <INT>
- B) l
- C) L
- D) LL
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741553>

Question 1733

Because SQL stored procedures allow and encourage code sharing among developers, stored procedures give database application developers the advantages of less work, standardized processing, and specialization among developers.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741101>

Question 1734

Refer to the table above. What is the lift for Drug B being purchased given that Drug A has been purchased?

- A) .200
- B) .250
- C) .333
- D) .500
- E) .667

Answer: <https://biology-forums.com/index.php?topic=741352>

Question 1735

To access files from a C++ program, you must use this directive:

- A) #include <fstream>
- B) #include<fileaccess>
- C) #include <filestream>
- D) #include <iostream>
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742013>

Question 1736

In the normalization process, it is necessary to identify all the determinants in a relation.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740344>

Question 1737

Look at the following structure declaration.

```
struct Employee
{
    string name;
```

```
int idNum;
```

```
};
```

In this declaration, idNum is:

- A) an array
- B) a member
- C) a tag
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=741979>

Question 1738

Microsoft Access 2013 wizards allow easy mock-ups of forms and reports for prototyping.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740527>

Question 1739

When applied to 1:N relationships, the term "parent" refers to the many side of the relationship since a child may have many parents.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740597>

Question 1740

Which of the following would not be contained in a use case?

- A) Inputs provided to the system to perform a task
- B) A description of a task the user wants to perform
- C) A prototype of the system performing a given task
- D) Outputs generated by the system in performing a given task
- E) All of the above would be contained in a use case.

Answer: <https://biology-forums.com/index.php?topic=740535>

Question 1741

The following statement:

```
stack< int, vector<int> > iStack;
```

indicates:

- A) a new stack of integers, implemented as a vector
- B) a new vector named stack, implemented with integers
- C) a new stack of integers, implemented as a deque
- D) a new stack named vector, implemented as integers
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742250>

Question 1742

A node that has no children is known as a _____.

- A) root node
- B) leaf node
- C) pure binary node
- D) head node
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742318>

Question 1743

When using Microsoft Access and IIS, the Web pages that access the database can be written using the _____ scripting language.

Answer: <https://biology-forums.com/index.php?topic=740809>

Question 1744

What Microsoft Access file format is used by default in Microsoft Access 2013?

Answer: <https://biology-forums.com/index.php?topic=740320>

Question 1745

The authors recommend using which of the following folder structures with the MySQL Workbench?

- A) ..\MyDocuments\MySQL Workbench

- B) ..\MyDocuments\MySQL Workbench\Schemas
- C) ..\MyDocuments\MySQL Workbench\EER Models
- D) Both A and B
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741041>

Question 1746

What is normalization?

Answer: <https://biology-forums.com/index.php?topic=740407>

Question 1747

The statement:

```
cin >> setw(10) >> str;  
will read up to this many characters into str.
```

- A) Eight
- B) Eleven
- C) Ten
- D) Nine
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741590>

Question 1748

Which of the following SQL commands would be used to remove only the data from a table named STUDENT while leaving the table structure intact?

- A) DROP TABLE STUDENT;
- B) DELETE TABLE STUDENT;
- C) REMOVE TABLE STUDENT;
- D) SELECT * FROM STUDENT THEN DROP;
- E) DELETE FROM STUDENT;

Answer: <https://biology-forums.com/index.php?topic=740468>

Question 1749

An SQL data type of _____ would indicate a variable-length character string with maximum length 75.

Answer: <https://biology-forums.com/index.php?topic=740479>

Question 1750

Microsoft Access 2013 switchboards use _____ to place text on switchboards.

Answer: <https://biology-forums.com/index.php?topic=741239>

Question 1751

Microsoft Access 2013 database files are stored using the file extension:

- A) .adb.
- B) .asp.
- C) .accdb.
- D) .mdb.
- E) .sql.

Answer: <https://biology-forums.com/index.php?topic=740293>

Question 1752

The order of the columns returned by an SQL SELECT statement is determined by the:

- A) ORDER BY clause.
- B) SORT BY clause.
- C) order they are listed in following SELECT.
- D) order they are listed in following WHERE.
- E) order they are listed in following FROM.

Answer: <https://biology-forums.com/index.php?topic=740452>

Question 1753

When Microsoft Access 2013 compiles VBA code in a database, the database file will be a(n):

- A) *.accdb file.

- B) *.accdc file.
- C) *.accde file.
- D) *.mdb file.
- E) *.mdw file.

Answer: <https://biology-forums.com/index.php?topic=740710>

Question 1754

Business Intelligence (BI) systems obtain their data by which of the following means?

- A) Read and process data from an operational database
- B) Process extracts from operational databases
- C) Process data purchased from data vendors
- D) Both A and B
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741320>

Question 1755

The strcpy function's arguments are:

- A) three pointers
- B) one array and one pointer
- C) two addresses
- D) two C-strings
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741909>

Question 1756

Below installing the NetBeans IDE, we have to install the Java JDK.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741253>

Question 1757

DTD stands for Document Type Declaration.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741393>

Question 1758

A(n) _____ is used in a function template to specify a generic data type.

- A) catch block
- B) dummy variable
- C) exception
- D) type parameter

Answer: <https://biology-forums.com/index.php?topic=742173>

Question 1759

Data warehouses use a(n):

- A) operational database.
- B) dimensional database.
- C) structured storage.
- D) Either A or B
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=740863>

Question 1760

Look at the following statement:

```
int *ptr = nullptr;
```

In this statement, what does the word int mean?

- A) ptr is a pointer variable that will store the address of an integer variable.
- B) The variable named *ptr will store an asterisk and an integer value.
- C) The variable named *ptr will store an integer value.
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741876>

Question 1761

A good reason for overloading an operator is to enable it to _____.

- A) outperform its C language counterparts
- B) operate on no operands
- C) work in its usual way, but with programmer-defined data types
- D) operate on more operands than in its standard definition
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742093>

Question 1762

True/False: A dynamic stack starts as an empty linked list.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742280>

Question 1763

In any program that uses the cin object, you must include the _____.

- A) >> and << operators
- B) iostream header file
- C) linker
- D) compiler
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741567>

Question 1764

If a variable uses more than one byte of memory, for pointer purposes its address is _____.

- A) the average of the addresses used to store the variable
- B) the address of the last byte of storage
- C) general delivery
- D) the address of the first byte of storage
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741888>

Question 1765

True/False: If the sub-expression on the left side of the || operator is true, the expression on the right side will not be checked.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741656>

Question 1766

Identifiers of an entity that are composed of two or more attributes are called _____ identifiers.

Answer: <https://biology-forums.com/index.php?topic=740559>

Question 1767

_____ members of a base class are never accessible to a derived class.

- A) Protected
- B) Public
- C) Private
- D) A, B, and C
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742130>

Question 1768

The base class's _____ affects the way its members are inherited by the derived class.

- A) return data type
- B) name
- C) access specification

- D) A and B
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742144>

Question 1769

RFM analysis analyzes and ranks customers based on:

- A) their purchasing patterns.
- B) their income status.
- C) their residential location.
- D) Both A and B
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741333>

Question 1770

Users log into MySQL Community Server 5.6 using the Connect to MySQL Server dialog box.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741008>

Question 1771

Explain the representation of ID-dependent weak entities using the relational model.

Answer: <https://biology-forums.com/index.php?topic=740656>

Question 1772

Which of the following is an example of a C++ primitive data type?

- A) long double
- B) unsigned char
- C) unsigned short int
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741950>

Question 1773

To build a list initially, you can use a(n) _____ routine.

- A) constructor
- B) append
- C) build
- D) initialization
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742225>

Question 1774

These are operators that add and subtract one from their operands.

- A) binary and unary
- B) plus and minus
- C) ++ and --
- D) conditional and relational
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741664>

Question 1775

True/False: Linked lists are less complex to code and manage than arrays.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742240>

Question 1776

The ODBC Driver 11 for SQL Server is installed _____ when SQL Server 2014 is installed.

Answer: <https://biology-forums.com/index.php?topic=740953>

Question 1777

Microsoft Access can run QBE queries, but not SQL queries.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740441>

Question 1778

What will the following segment of code output?

```
score = 40;
if (score > 95)
    cout << "Congratulations!\n";
    cout << "That's a high score!\n";
    cout << "This is a test question!" << endl;
```

A) This is a test question!

B) Congratulations!

That's a high score!

This is a test question!

C) Congratulations!

That's a high score!

D) That's a high score!

This is a test question!

E) None of these

Answer: <https://biology-forums.com/index.php?topic=741622>

Question 1779

When an if statement is placed within the conditionally-executed code of another if statement, this is known as:

A) validation

B) overloading

C) nesting

D) complexity

E) None of these

Answer: <https://biology-forums.com/index.php?topic=741620>

Question 1780

True/False: In C++ 11, if you want to retrieve a strongly typed enumerator's underlying integer value, you must use a cast operator.

A) True

B) False

Answer: <https://biology-forums.com/index.php?topic=741999>

Question 1781

Briefly describe three types of triggers.

Answer: <https://biology-forums.com/index.php?topic=740811>

Question 1782

Which of the following are true about data mining applications?

A) They use sophisticated mathematical techniques.

B) They use sophisticated statistical techniques.

C) Their report delivery is more difficult than report delivery for reporting systems.

D) Both A and B

E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741324>

Question 1783

Closing a file causes any unsaved information still held in the file buffer to be _____.

A) deleted

B) duplicated

C) saved to the file

D) retained in the buffer for safekeeping

E) None of these

Answer: <https://biology-forums.com/index.php?topic=742020>

Question 1784

Describe why SQL Server 2014 is sensitive to certain words being used in SQL commands or scripts, and what to do about it.
Answer: <https://biology-forums.com/index.php?topic=740959>

Question 1785

SOAP originally stood for _____.
A) Simple Operational Application Protocol
B) Standard Operational Application Protocol
C) Simple Object Application Protocol
D) Simple Object Access Protocol
E) Standard Object Access Protocol
Answer: <https://biology-forums.com/index.php?topic=741419>

Question 1786

An SQL virtual table is called a view.
True or False?
Answer: <https://biology-forums.com/index.php?topic=741075>

Question 1787

True/False: It is possible to define a file stream object and open a file in one statement.
A) True
B) False
Answer: <https://biology-forums.com/index.php?topic=741725>

Question 1788

An array can store a group of values, but the values must be:
A) the same data type
B) integers
C) each of a different data type
D) constants
E) None of these
Answer: <https://biology-forums.com/index.php?topic=741794>

Question 1789

User interviews are conducted during the requirements analysis step.
True or False?
Answer: <https://biology-forums.com/index.php?topic=741155>

Question 1790

True/False: The expression s->m; indicates that s is a structure pointer and m is a structure member.
A) True
B) False
Answer: <https://biology-forums.com/index.php?topic=741984>

Question 1791

In crow's foot style E-R diagrams, a hash mark across the relationship line near an entity indicates:
A) a minimum cardinality of zero.
B) a minimum cardinality of one.
C) a maximum cardinality of one.
D) a maximum cardinality of many.
E) Both B and C
Answer: <https://biology-forums.com/index.php?topic=740547>

Question 1792

_____ is an important business function whose purpose is to manage the database to maximize its value to the organization.
Answer: <https://biology-forums.com/index.php?topic=740713>

Question 1793

How can XML be used with a DBMS?

Answer: <https://biology-forums.com/index.php?topic=740818>

Question 1794

Data is added to a table using the SQL INSERT command.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740418>

Question 1795

Which of the following is a basic linked list operation?

- A) inserting or deleting a node
- B) traversing the list
- C) appending a node
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742221>

Question 1796

Logging into the MySQL Community Server 5.6 DBMS is done using:

- A) the Connect to Server command.
- B) the Connect to Server dialog box.
- C) the Connect to MySQL Server command.
- D) the Connect to MySQL Server dialog box.
- E) None of the above is correct.

Answer: <https://biology-forums.com/index.php?topic=741031>

Question 1797

How many times will the following loop display "Hello"?

```
for (int i = 1; i < 20; i++)  
    cout << "Hello!" << endl;
```

- A) 20
- B) 19
- C) 21
- D) An infinite number of times

Answer: <https://biology-forums.com/index.php?topic=741709>

Question 1798

Values are typically stored in a binary search tree so that a node's _____ child holds data is less than the _____ data.

- A) right, node's
- B) left, node's
- C) left, right child's
- D) right, left child's
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742325>

Question 1799

This statement causes a loop to terminate early.

- A) terminate
- B) break
- C) null
- D) stop
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741689>

Question 1800

An important reason for using MySQL Community Server 5.6 is that it has full SQL capabilities.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741005>

Question 1801

What will the following code display?

```
int x = 0, y = 1, z = 2;  
cout << x << y << z << endl;
```

- A) 012
- B) 0 1 2
- C) 0
- 1
- 2
- D) xyz

Answer: <https://biology-forums.com/index.php?topic=741542>

Question 1802

The MySQL Workbench EER diagrams are actually _____ E-R diagrams.

Answer: <https://biology-forums.com/index.php?topic=741065>

Question 1803

Outside of a C++ program, a file is identified by its _____. Inside a C++ program, a file is identified by a(n) _____.

- A) name, file stream object
- B) name, address
- C) file name, file number
- D) file number, file name
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742017>

Question 1804

True/False: The default section is required in a switch statement.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741657>

Question 1805

True/False: Escape sequences are always stored internally as a single character.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741559>

Question 1806

Users log into the Oracle Database XE 11.2 utility using the _____ account.

Answer: <https://biology-forums.com/index.php?topic=740988>

Question 1807

What is the modulus operator?

- A) *
- B) &
- C) +
- D) %
- E) ||

Answer: <https://biology-forums.com/index.php?topic=741519>

Question 1808

When you dereference an object pointer, use the _____.

- A) & operator
- B) <> operator
- C) -> operator
- D) dot operator
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742058>

Question 1809

Which of the following is true when representing a 1:1 binary relationship using the relational model?

- A) The key of the entity with the highest minimum cardinality must be placed in the other entity as a foreign key.
- B) The key of each entity must be placed in the other as a foreign key.
- C) The key of either entity is placed in the other as a foreign key.
- D) The key of the entity with the most attributes must be placed in the other entity as a foreign key.
- E) Both entities must have the same primary key.

Answer: <https://biology-forums.com/index.php?topic=740620>

Question 1810

Describe how to create a new database in MySQL 5.6 Community Server Edition.

Answer: <https://biology-forums.com/index.php?topic=741066>

Question 1811

True/False: A linked list can consist of structs, objects, or other abstract data types.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742238>

Question 1812

Microsoft Access SQL commands are run within the SQL View of a Query window.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740440>

Question 1813

Microsoft Access 2013 databases are stored using the file extension .accdb.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740270>

Question 1814

The list container provided by the Standard Template Library is a template version of a _____.

- A) singly-linked list
- B) doubly-linked list
- C) backward-linked list
- D) circular-linked list
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742215>

Question 1815

In SQL, the LIKE keyword can be combined with the NOT keyword to form the NOT LIKE condition for selecting values.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740426>

Question 1816

Not all arithmetic operations may be performed on pointers. For example, you cannot _____ or _____ a pointer.

- A) multiply, divide
- B) +=, -=
- C) increment, decrement
- D) add, subtract
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741879>

Question 1817

A stored program that is attached to a table or view is called _____.

- A) a CHECK constraint
- B) a view
- C) embedded SQL

- D) a trigger
- E) a stored procedure

Answer: <https://biology-forums.com/index.php?topic=741115>

Question 1818

A(n) _____ is a unique, numeric value that is appended to the relation to serve as the primary key.

Answer: <https://biology-forums.com/index.php?topic=740388>

Question 1819

Statement level consistency means that all statements within a transaction will access consistent rows across the lifetime of the entire transaction. True or False?

Answer: <https://biology-forums.com/index.php?topic=740675>

Question 1820

The individual values contained in array are known as _____.

- A) numbers
- B) constants
- C) elements
- D) parts
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741782>

Question 1821

Which of the following is the easiest tool for doing database development with Oracle Database?

- A) The Oracle Database XE 11.2 utility
- B) The Oracle SQL*Plus command utility program
- C) The Oracle SQL Developer
- D) A and C
- E) A, B and C

Answer: <https://biology-forums.com/index.php?topic=740976>

Question 1822

User interviews are conducted during the _____ step of the SDLC.

- A) system definition
- B) requirements analysis
- C) component design
- D) implementation
- E) systems maintenance

Answer: <https://biology-forums.com/index.php?topic=741166>

Question 1823

What is the value of number after the following statements execute?

```
int number = 10;
```

```
number += 5;  
number -= 2;  
number *= 3;
```

- A) 39
- B) 2
- C) 3
- D) 30

Answer: <https://biology-forums.com/index.php?topic=741596>

Question 1824

The unique keys that are not chosen to be the primary key are called _____ keys.

Answer: <https://biology-forums.com/index.php?topic=740385>

Question 1825

In Microsoft Visio 2013, Relationship connector objects can be formatted with the line end symbols needed to create IE Crow's Foot notation.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741203>

Question 1826

What is a Microsoft Excel PivotTable?

Answer: <https://biology-forums.com/index.php?topic=740918>

Question 1827

What relationship pattern is illustrated in the following schema?

VEHICLE (VehicleID, Cost)

CAR (VehicleID, NumberOfSeats)

TRUCK (VehicleID, CargoCapacity)

VehicleID in CAR must exist in VehicleID in VEHICLE

VehicleID in TRUCK must exist in VehicleID in VEHICLE

- A) Association relationship
- B) Intersection relationship
- C) Recursive relationship
- D) Strong entity relationship
- E) Supertype/subtype relationship

Answer: <https://biology-forums.com/index.php?topic=740632>

Question 1828

A queue is a data structure that stores and retrieves items in this manner.

- A) random
- B) first in, last out
- C) first in, first out
- D) last in, first out
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742264>

Question 1829

A report that is sent to users on a predetermined schedule is called a(n) _____ report.

Answer: <https://biology-forums.com/index.php?topic=741368>

Question 1830

A star schema resembles a star, with a dimension table at the center and fact tables radiating out from the center.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740838>

Question 1831

In Microsoft Visio 2013, the cardinalities of the relationship are set using the Set Begin Symbol and Set End Symbol commands.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741206>

Question 1832

To change a character argument from lower to upper case, use this function.

- A) isupper
- B) fromlower
- C) toupper
- D) tolarge
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741922>

Question 1833

What is the output of the following code segment?

```
n = 1;
for ( ; n <= 5; )
    cout << n << ' ';
    n++;
```

- A) 2 3 4 5 6
- B) 1 1 1 ... and on forever
- C) 1 2 3 4 5
- D) 2 3 4 5
- E) 1 2 3 4

Answer: <https://biology-forums.com/index.php?topic=741685>

Question 1834

A(n) _____ is similar to a computer program subroutine or function, but it is stored within the database.

Answer: <https://biology-forums.com/index.php?topic=740796>

Question 1835

Microsoft Access 2013 can secure databases by deploying databases packaged with a(n) _____.

Answer: <https://biology-forums.com/index.php?topic=740725>

Question 1836

Whether a lock applies to data at the record level, page level, table level, or database level is referred to as:

- A) lock exclusivity.
- B) lock sharing.
- C) lock phasing.
- D) serializable locking.
- E) lock granularity.

Answer: <https://biology-forums.com/index.php?topic=740695>

Question 1837

This vector function returns the number of elements in a vector.

- A) size
- B) num_elements
- C) length
- D) elements

Answer: <https://biology-forums.com/index.php?topic=741822>

Question 1838

An entity needs to be examined according to normalization criteria before creating a table from it in the relational database design.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740587>

Question 1839

Why is operational data sometimes unusable for Business Intelligence use?

Answer: <https://biology-forums.com/index.php?topic=740910>

Question 1840

Business Intelligence (BI) systems obtain data in _____ different ways.

Answer: <https://biology-forums.com/index.php?topic=740884>

Question 1841

Distinguish between the primary key and a candidate key.

Answer: <https://biology-forums.com/index.php?topic=740401>

Question 1842

To test whether a character is a numeric digit character, use this function.

- A) isnumeric
- B) notAlpha
- C) isdigit
- D) isnumber
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741904>

Question 1843

A key that contains more than one attribute is called a(n):

- A) composite key.
- B) complex key.
- C) multi-key.
- D) n-key.
- E) candidate key.

Answer: <https://biology-forums.com/index.php?topic=740357>

Question 1844

Today almost every commercial database is based on:

- A) lists.
- B) the hierarchical model.
- C) the linked-list model.
- D) the relational model.
- E) the object-oriented model.

Answer: <https://biology-forums.com/index.php?topic=740275>

Question 1845

When a binary tree is used to facilitate a search, it is referred to as a _____.

- A) sort algorithm
- B) binary queue
- C) binary search tree
- D) binary ordered deque
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742319>

Question 1846

In a database system, the _____ creates and processes forms.

Answer: <https://biology-forums.com/index.php?topic=740305>

Question 1847

Surrogate key values have no meaning to the users.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740333>

Question 1848

We have obtained access to the company's operational data. We examine 50 records for customers with phone numbers that should use the current area code of 345. Of these 50 records, we find 10 that still use an older area code of 567. This is an example of:

- A) dirty data.
- B) inconsistent data.
- C) non-integrated data.
- D) a "wrong format" problem.
- E) a "too much data" problem.

Answer: <https://biology-forums.com/index.php?topic=741327>

Question 1849

This function accepts a C-string as an argument and converts the string to a long integer.

- A) strtolng
- B) strtolng
- C) stringlong
- D) atol
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741911>

Question 1850

Which line in the following program contains the prototype for the showDub function?

```
1 #include <iostream>
```

```
2 using namespace std;
3
4 void showDub(int);
5
6 int main()
7 {
8     int x = 2;
9
10    showDub(x);
11    cout << x << endl;
12    return 0;
13 }
14
15 void showDub(int num)
16 {
17     cout << (num * 2) << endl;
18 }
A) 4
B) 6
C) 10
D) 15
```

Answer: <https://biology-forums.com/index.php?topic=741757>

Question 1851

This is a complete instruction that causes the computer to perform some action.

- A) Key Word
- B) Statement
- C) Variable
- D) Line
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741478>

Question 1852

The SQL Server DBMS supports the SQL BEFORE trigger.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741095>

Question 1853

True/False: The programmer must declare in advance the size of a dynamic stack or queue.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742288>

Question 1854

You may use a pointer to a structure as a _____.

- A) function return type
- B) structure member
- C) function parameter
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741959>

Question 1855

This step will uncover any syntax errors in your program.

- A) Linking
- B) Compiling
- C) Editing
- D) Executing
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741469>

Question 1856

True/False: The Standard Template Library (STL) contains templates for useful algorithms and data structures.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742200>

Question 1857

What is an association relationship, and how does it differ from an N:M relationship?

Answer: <https://biology-forums.com/index.php?topic=740659>

Question 1858

SQL Server 2014 Express requires that the .NET Framework version 2.0 be installed.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740920>

Question 1859

In Microsoft Access, the Relationships window is accessed by using the _____ button on the Database tools command tab.

Answer: <https://biology-forums.com/index.php?topic=740395>

Question 1860

Arrays may be _____ at the time they are _____.

- A) initialized, declared
- B) re-scoped, deleted
- C) pre-compiled, typecast
- D) resized, executed
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741797>

Question 1861

In crow's foot E-R notation, the hash mark indicates both a minimum cardinality of one and a maximum cardinality of one.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740524>

Question 1862

Members of a(n) _____ union have names, but the union itself has no name.

- A) organized
- B) dereferenced
- C) anonymous
- D) declared
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741956>

Question 1863

True/False: Dereferencing a pointer to a pointer gives you another pointer.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742350>

Question 1864

True/False: A pointer can be used as a function argument, giving the function access to the original argument.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741899>

Question 1865

Below installing the NetBeans IDE, we have to install _____.

- A) the Java JRE

- B) the Java SDK
- C) the Java JDK
- D) the Java SRE
- E) Any of the above will work.

Answer: <https://biology-forums.com/index.php?topic=741268>

Question 1866

Data stored here disappears once the program stops running or the computer is powered down.

- A) in RAM
- B) on the disk drive
- C) on a CD
- D) on a backup tape
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742002>

Question 1867

What are SQL stored procedures and how are they used?

Answer: <https://biology-forums.com/index.php?topic=741143>

Question 1868

This function concatenates the contents of one C-string with another C-string.

- A) stradd
- B) strcpy
- C) strcat
- D) strappend
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741926>

Question 1869

One important relational design principle is that:

- A) every determinant must be a candidate key.
- B) every candidate key must not be a determinant.
- C) every primary key must be a surrogate key.
- D) every determinant must be functionally dependent on the primary key.
- E) every primary key must be functionally dependent on every determinant.

Answer: <https://biology-forums.com/index.php?topic=740370>

Question 1870

What components are included in a database?

Answer: <https://biology-forums.com/index.php?topic=740313>

Question 1871

A two-dimensional array can be viewed as _____ and _____.

- A) rows, columns
- B) increments, decrements
- C) arguments, parameters
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741789>

Question 1872

In Microsoft Access, relationships between tables are built in the _____.

Answer: <https://biology-forums.com/index.php?topic=740394>

Question 1873

The SQL command _____ is used to create a virtual table.

Answer: <https://biology-forums.com/index.php?topic=741128>

Question 1874

A(n) _____ search uses a loop to sequentially step through an array.

- A) binary
- B) linear
- C) relative
- D) unary
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741846>

Question 1875

What will the following code display?

```
int number = 6;
int x = 0;
x = number--;

cout << x << endl;
A) 6
B) 5
C) 7
D) 0
```

Answer: <https://biology-forums.com/index.php?topic=741697>

Question 1876

In a common form of RFM analysis, customers with an R score of 5 are in the 20% of customers who have the most recent orders. True or False?

Answer: <https://biology-forums.com/index.php?topic=741293>

Question 1877

The first node in a binary tree list is called the _____.

- A) head pointer
- B) binary node
- C) pointer node
- D) root node
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742317>

Question 1878

The Microsoft Access 2013 report editor is a(n):

- A) banded report editor.
- B) wizard-based report editor.
- C) ASCII report editor.
- D) WYSIWYG report editor.
- E) Web-based report editor.

Answer: <https://biology-forums.com/index.php?topic=740555>

Question 1879

Ensuring that each SQL statement independently processes consistent rows is known as:

- A) transaction level consistency.
- B) independent consistency.
- C) statement level consistency.
- D) process level consistency.
- E) serializable consistency.

Answer: <https://biology-forums.com/index.php?topic=740699>

Question 1880

To represent a M:N relationship in the relational model, an intersection relation is created to represent the relationship itself.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740601>

Question 1881

To represent a 1:N relationship in the relational model, the key of either entity may be placed as a foreign key in the other entity.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740599>

Question 1882

Which of the following is true about data mining applications?

- A) They use sophisticated mathematical techniques.
- B) They use sophisticated statistical techniques.
- C) Their report delivery is more difficult than report delivery for reporting systems.
- D) Both A and B
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=740857>

Question 1883

The three sequence container objects provided by the STL are:

- A) multimap, map, multilist
- B) map, list, array
- C) vector, deque, list
- D) set, multiset, map
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742180>

Question 1884

What is the value of average after the following code executes?
double average;

```
average = 1.0 + 2.0 + 3.0 / 3.0;
```

- A) 4.0
- B) 2.0
- C) 1.5
- D) 6.0

Answer: <https://biology-forums.com/index.php?topic=741593>

Question 1885

What are "business rules" and what is their role in database design?

Answer: <https://biology-forums.com/index.php?topic=740580>

Question 1886

A surrogate key should be considered when _____.

- A) a relationship is M:N
- B) a composite key is required
- C) the key contains a lengthy text field
- D) the key contains a number
- E) an index needs to be created

Answer: <https://biology-forums.com/index.php?topic=740614>

Question 1887

In Microsoft Visio 2013, how do we format line ends in data models to represent the symbols used in the IE Crow's Foot notation?

Answer: <https://biology-forums.com/index.php?topic=741223>

Question 1888

Microsoft Access 2013 database files are stored using the _____ file extension.

Answer: <https://biology-forums.com/index.php?topic=740308>

Question 1889

This member function reads a single character from a file.

- A) input
- B) read
- C) put
- D) get

E) None of these

Answer: <https://biology-forums.com/index.php?topic=742011>

Question 1890

During the normalization process, the remedy for a relation that is not well formed is to:

- A) create a surrogate key.
- B) create a functional dependency.
- C) break it into two or more relations that are well formed.
- D) combine it with another relation that is well formed.
- E) convert it into a list.

Answer: <https://biology-forums.com/index.php?topic=740371>

Question 1891

Market basket analysis is:

- A) a data mart specific technique.
- B) a reporting technique.
- C) an RFM application.
- D) an OLAP application.
- E) a data mining technique.

Answer: <https://biology-forums.com/index.php?topic=741347>

Question 1892

Given only the following excerpt of an E-R model:

If one instance of ENTITY B must be related to one and only one instance of ENTITY A, and one instance of ENTITY A may be related to many instances of ENTITY B, which of the following should be written on the end of the relationship line next to ENTITY B in the figure above?

- A)
- B)
- C)
- D)
- E) None of the above is correct.

Answer: <https://biology-forums.com/index.php?topic=740543>

Question 1893

To start working with MySQL Server Community Edition in Windows 8.1, use the command Start | All Programs | MySQL | MySQL Workbench 6.1 CE.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741007>

Question 1894

What is the output of the following statement?

```
cout << 4 * (15 / (1 + 3)) << endl;
```

- A) 63
- B) 15
- C) 12
- D) 72
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741521>

Question 1895

True/False: The statement:

```
double money[25.00];
```

is a valid C++ array definition.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741826>

Question 1896

True/False: Any mathematical operations that can be performed on regular C++ variables can be performed on structure members.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741981>

Question 1897

True/False: When a program uses the setw manipulator, the iosetwidth header file must be included in a preprocessor directive.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741607>

Question 1898

According to the ODBC standard, which of the following is not part of the specification of a data source?

- A) The associated DBMS
- B) The database
- C) The driver
- D) The operating system
- E) The network platform

Answer: <https://biology-forums.com/index.php?topic=740776>

Question 1899

In Microsoft Access, a relationship is created by dragging a foreign key column and dropping it on top of the corresponding primary key.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740350>

Question 1900

True/False: Assume array1 and array2 are the names of arrays. To assign the contents of array2 to array1, you would use the following statement.

array1 = array2;

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741828>

Question 1901

Microsoft Visio 2013 is a component of Microsoft Office 2013.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741192>

Question 1902

All stream objects have _____, which indicate the condition of the stream.

- A) intrinsic error messages
- B) condition statements
- C) markers
- D) error state bits
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742023>

Question 1903

What concurrent processing problem occurs when a transaction rereads data and finds new rows that were inserted by a different transaction since the prior read?

- A) Nonrepeatable reads
- B) Phantom reads
- C) Dirty reads
- D) Serialized reads
- E) Unlocked reads

Answer: <https://biology-forums.com/index.php?topic=740692>

Question 1904

This type of variable is defined inside a function and is not accessible outside the function.

- A) global
- B) reference
- C) counter
- D) local
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741734>

Question 1905

In order to create MySQL EER diagrams, users must log into MySQL using the Connect to Database and the Connect to MySQL Server dialog boxes. True or False?

Answer: <https://biology-forums.com/index.php?topic=741016>

Question 1906

To create a linked list, you must first create a(n) _____.

- A) exception
- B) function template
- C) header file
- D) struct
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742220>

Question 1907

This is used to mark the end of a complete C++ programming statement.

- A) Void
- B) Data type
- C) Pound Sign
- D) Semicolon
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741523>

Question 1908

SQL triggers use the SQL keywords BEFORE, INSTEAD OF, and AFTER.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741091>

Question 1909

The most important data structures in the STL are _____ and _____.

- A) templates, prototypes
- B) containers, iterators
- C) lists, groups
- D) arrays, structs
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742191>

Question 1910

_____ is a way of analyzing and ranking customers based on their purchasing patterns.

Answer: <https://biology-forums.com/index.php?topic=741363>

Question 1911

For database/XML applications, a good rule to follow is that elements are used to carry data and attributes are used to carry metadata.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741405>

Question 1912

When an SQL SELECT statement is used to retrieve data from a view instance, the maximum number of columns that can be specified in the SELECT is the same as the number of columns:

- A) in the table underlying the view.
- B) in the VIEW specification.
- C) in the ORDER BY clause.
- D) in the HAVING clause.
- E) that have aliases.

Answer: <https://biology-forums.com/index.php?topic=741110>

Question 1913

For every opening brace in a C++ program, there must be a:

- A) Variable
- B) Function
- C) String literal
- D) Closing brace
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741507>

Question 1914

In XML Schema, there are two types of elements, simple and composite.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741403>

Question 1915

A BI reporting system:

- A) creates meaningful information from disparate data sources.
- B) delivers information to users on a timely basis.
- C) uses statistical procedures to predict future events.
- D) Both A and B
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741332>

Question 1916

True/False: You must use the private access specification for all data members of a class.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742080>

Question 1917

A new MySQL Server database is known as a new _____.

Answer: <https://biology-forums.com/index.php?topic=741060>

Question 1918

The process of moving through a linked list is referred to as _____ the list.

- A) node-hopping
- B) cruising
- C) alternating
- D) traversing
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742210>

Question 1919

True/False: You can define any number of union variables, but each variable can only store the value of one member at a time.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741987>

Question 1920

In Microsoft Visio 2013, describe the possible cardinality settings for a Relationship object that can be set in the symbols menu in a database design, and how these settings correspond to the IE Crow's Foot symbols shown in Figure G-21.

Answer: <https://biology-forums.com/index.php?topic=741225>

Question 1921

Describe how to create a new database design in the MySQL Workbench.

Answer: <https://biology-forums.com/index.php?topic=741071>

Question 1922

To create an OLAP report for an Access 2013 database, use the _____ tool in Excel 2013.

Answer: <https://biology-forums.com/index.php?topic=740903>

Question 1923

This statement may be used to stop a loop's current iteration and begin the next one.

- A) re-iterate
- B) break
- C) terminate
- D) continue
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741676>

Question 1924

SQL is not a complete programming language, but is rather a(n) _____.

Answer: <https://biology-forums.com/index.php?topic=740476>

Question 1925

By default, when Microsoft Access creates a relationship between two tables, it creates a(n):

- A) 1:1 relationship.
- B) 1:N relationship.
- C) N:M relationship.
- D) association relationship.
- E) recursive relationship.

Answer: <https://biology-forums.com/index.php?topic=740638>

Question 1926

An important reason for using Oracle Database Express Edition 11g Release 2 is that it has _____.

Answer: <https://biology-forums.com/index.php?topic=740987>

Question 1927

Microsoft Access is a personal database system, and a personal database system is characterized by:

- A) the DBMS removing the metadata from the database.
- B) the DBMS product taking the role of the DBMS and the database application generator.
- C) the database being stored inside the DBMS.
- D) the DBMS product being limited to a maximum of ten tables in any given database.
- E) the DBMS not supporting indexes.

Answer: <https://biology-forums.com/index.php?topic=740291>

Question 1928

Microsoft SQL Server is an example of a:

- A) database.
- B) database management system.
- C) data manipulation system.
- D) table.
- E) list manager.

Answer: <https://biology-forums.com/index.php?topic=740289>

Question 1929

This term refers to the programmer reading the program from the beginning and stepping through each statement.

- A) Desk Checking
- B) Software Engineering
- C) Pseudocoding
- D) Spot Checking
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741470>

Question 1930

In memory, C++ automatically places a _____ at the end of string literals.

- A) Null terminator
- B) Quotation marks
- C) Semicolon

- D) Newline escape sequence
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741517>

Question 1931

In a binary tree, each node may point to _____ other nodes.

- A) two
- B) no
- C) one
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742315>

Question 1932

The _____ sort usually performs fewer exchanges than the _____ sort.

- A) binary, linear
- B) selection, bubble
- C) ANSI, ASCII
- D) bubble, selection
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741843>

Question 1933

To use the Access 2013 database in an Excel 2013 PivotTable, it is generally useful to:

- A) create a view-equivalent query in Access to organize the data.
- B) store the needed data in an Excel worksheet.
- C) store the needed data in a Word document.
- D) store the needed data in a PowerPoint slide show.
- E) store the needed data in a Visio diagram.

Answer: <https://biology-forums.com/index.php?topic=740877>

Question 1934

Data warehouse data is often stored in a(n) _____.

Answer: <https://biology-forums.com/index.php?topic=741359>

Question 1935

A new SQL Server database is created using the New Database dialog box.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740927>

Question 1936

A virtual function is declared by placing the key word _____ in front of the return type in the base class's function declaration.

- A) private
- B) public
- C) protected
- D) virtual
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742150>

Question 1937

What is SQL Developer?

Answer: <https://biology-forums.com/index.php?topic=740998>

Question 1938

A complex element must have more than one simple element.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741404>

Question 1939

When Microsoft Access 2013 secures a database just by storing the database in a trusted location, the database file will be a(n):

- A) *.accdb file.
- B) *.accdc file.
- C) *.accde file.
- D) *.mdb file.
- E) *.mdw file.

Answer: <https://biology-forums.com/index.php?topic=740708>

Question 1940

Information systems must be both developed and used to help businesses reach their goals and objectives.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741149>

Question 1941

A(n) _____ is a diagram that shows the logical flow of a program.

- A) hierarchy chart
- B) flowchart
- C) UML diagram
- D) program schematic
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741494>

Question 1942

In Microsoft Visio 2013, we can create supertype/subtype relationships in data models using:

- A) Entity and Dynamic connector objects.
- B) Table and Relationship connector objects.
- C) Category and Dynamic connector objects.
- D) Category and Relationship connector objects.
- E) There are no separate objects to create supertype/subtype, so we use standard objects.

Answer: <https://biology-forums.com/index.php?topic=741214>

Question 1943

Microsoft Access 2013 switchboards can be used to create:

- A) application forms.
- B) application reports.
- C) application menus.
- D) application databases.
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=741232>

Question 1944

An _____ operator can work with programmer-defined data types.

- A) unconditional
- B) inline
- C) overloaded
- D) undefined
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742107>

Question 1945

Which of the following is true about stored procedures?

- A) Stored procedures cannot be passed parameters like a regular application function.
- B) Stored procedures are stored as an embedded function in the application program.
- C) Stored procedures are stored in the database.
- D) Stored procedures are invoked automatically by the DBMS when specific events occur.
- E) All of the above are true about stored procedures.

Answer: <https://biology-forums.com/index.php?topic=740771>

Question 1946

In a snowflake table, each dimension table is normalized.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740839>

Question 1947

How many elements does the following array have?

```
int bugs[1000];
```

- A) 1000
- B) 1001
- C) 999
- D) Cannot tell from the code

Answer: <https://biology-forums.com/index.php?topic=741811>

Question 1948

After execution of the following code, what will be the value of input_value if the value 0 is entered at the keyboard at run time?

```
cin >> input_value;  
if (input_value > 5)  
    input_value = input_value + 5;  
else if (input_value > 2)  
    input_value = input_value + 10;  
else  
    input_value = input_value + 15;
```

- A) 10
- B) 15
- C) 5
- D) 25
- E) 0

Answer: <https://biology-forums.com/index.php?topic=741612>

Question 1949

XML Schemas consist of elements, attributes, and properties.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741402>

Question 1950

A stack has two primary operations:

- A) append and delete
- B) push and pull
- C) insert and delete
- D) push and pop
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742261>

Question 1951

What is true about the following statement?

```
out.open("values.dat", ios::app);
```

- A) If the file exists, it can be opened but not modified.
- B) If the file exists, it should be replaced with a new copy of values.dat.
- C) If the file already exists, its contents are preserved and all output is written to the end of the file.
- D) None of these

Answer: <https://biology-forums.com/index.php?topic=742007>

Question 1952

To open a new Microsoft Access Query window, click the Query Design button on the Create command tab.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740442>

Question 1953

In order to use MySQL Workbench to create database designs, you must log into MySQL using:

- A) the Connect to Database dialog box.
- B) the Connect to MySQL Server dialog box.

- C) the MySQL | Connect to Server command.
D) Both A and B are used together.
E) None of the above is correct - no login is required.

Answer: <https://biology-forums.com/index.php?topic=741042>

Question 1954

To determine whether a character entered is a letter of the alphabet, use this function.

- A) alphaok
B) fromkeyboard
C) isalpha
D) isdigit
E) None of these

Answer: <https://biology-forums.com/index.php?topic=741920>

Question 1955

This state bit is set when an attempted operation has failed.

- A) ios::hardfail
B) ios::badbit
C) ios::goodbit
D) ios::failbit
E) None of these

Answer: <https://biology-forums.com/index.php?topic=742024>

Question 1956

Which of the following tasks can be done using the Oracle SQL Developer?

- A) See the structure of a table
B) Add and remove columns from a table
C) Insert and delete data from a table
D) A and B
E) A, B and C

Answer: <https://biology-forums.com/index.php?topic=740979>

Question 1957

A dynamic stack has a _____ size, and is implemented as a(n) _____.

- A) fixed, linked list
B) variable, linked list
C) variable, array
D) fixed, array
E) None of these

Answer: <https://biology-forums.com/index.php?topic=742247>

Question 1958

To deal with data values that change over time, dimensional databases use a(n) _____.

Answer: <https://biology-forums.com/index.php?topic=740894>

Question 1959

True/False: Any algorithm that can be coded with recursion can also be coded with an iterative structure.

- A) True
B) False

Answer: <https://biology-forums.com/index.php?topic=742312>

Question 1960

Given the tables

PRODUCT (ProductID, Description, Cost)

SUPPLIER (SupplierID, ContactName, PhoneNumber)

as shown in the figure below, which of the following would represent the correct placement of foreign keys?

- A) PRODUCT (ProductID, Description, Cost)
SUPPLIER (SupplierID, ContactName, PhoneNumber)
B) PRODUCT (ProductID, Description, Cost)

SUPPLIER (SupplierID, ContactName, PhoneNumber, ProductID)
C) PRODUCT (ProductID, Description, Cost, SupplierID)
SUPPLIER (SupplierID, ContactName, PhoneNumber, ProductID)
D) PRODUCT (ProductID, Description, Cost, ContactName)
SUPPLIER (SupplierID, ContactName, PhoneNumber)
E) PRODUCT (ProductID, Description, Cost, SupplierID)
SUPPLIER (SupplierID, ContactName, PhoneNumber)
Answer: <https://biology-forums.com/index.php?topic=740623>

Question 1961

A use case can be used to perform which of the following tasks?
A) Transform the data model into the database design
B) Validate the data model
C) Fill the database with data
D) Implement business rules
E) Develop applications
Answer: <https://biology-forums.com/index.php?topic=740536>

Question 1962

What are SQL Built-in Functions?
Answer: <https://biology-forums.com/index.php?topic=740502>

Question 1963

True/False: If you want to stop a loop before it goes through all its iterations, the break statement may be used.
A) True
B) False
Answer: <https://biology-forums.com/index.php?topic=741717>

Question 1964

True/False: Using a binary search, you are more likely to find an item than if you use a linear search.
A) True
B) False
Answer: <https://biology-forums.com/index.php?topic=741858>

Question 1965

A key that contains two or more attributes is called a(n) _____ key.
Answer: <https://biology-forums.com/index.php?topic=740384>

Question 1966

XML stands for _____.
Answer: <https://biology-forums.com/index.php?topic=740803>

Question 1967

What will the following statement output?
`cout << &num1;`
A) The value stored in the variable called num1
B) The string "&num1"
C) The number 1
D) The memory address of the variable called num1
E) None of these
Answer: <https://biology-forums.com/index.php?topic=741874>

Question 1968

Which escape sequence causes the cursor to move to the beginning of the current line?
A) \t
B) \n
C) \a
D) \r
E) \b

Answer: <https://biology-forums.com/index.php?topic=741518>

Question 1969

In Microsoft Access, the relationship between two tables is not actually created until:

- A) the OK button in the Create Relationships dialog box is clicked.
- B) the Create button in the Create Relationships dialog box is clicked.
- C) the OK button in the Edit Relationships dialog box is clicked.
- D) the Create button in the Edit Relationships dialog box is clicked.
- E) the Join button in the Edit Relationships dialog box is clicked.

Answer: <https://biology-forums.com/index.php?topic=740382>

Question 1970

If a member variable is declared _____, all objects of that class have access to that variable.

- A) default
- B) inline
- C) dynamic
- D) static
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742098>

Question 1971

Breaking hardware, power outages, and human mistakes are all reasons that _____.

Answer: <https://biology-forums.com/index.php?topic=740722>

Question 1972

To use the rand() function, you must #include this header file in your program.

- A) cstdlib
- B) iostream
- C) iomanip
- D) iorand
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741581>

Question 1973

Data warehouses are populated with data prepared by _____ programs.

Answer: <https://biology-forums.com/index.php?topic=740889>

Question 1974

A binary tree with a height of three has:

- A) three subtrees
- B) one root and three nodes with two children each
- C) three levels
- D) six nodes
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742340>

Question 1975

The CAP theorem defines the three properties, one of which is authorization.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741383>

Question 1976

An array's size declarator must be a _____ with a value greater than _____.

- A) variable, -1
- B) number, one
- C) constant integer expression, zero
- D) number, zero
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741795>

Question 1977

The identifier of the entity becomes the _____ of the corresponding table.

- A) primary key
- B) foreign key
- C) supertype
- D) subtype
- E) either A or B

Answer: <https://biology-forums.com/index.php?topic=740612>

Question 1978

Which of the following popular data mining techniques require special software?

- A) Decision tree analysis
- B) Logistic regression analysis
- C) Neural networks
- D) A and B
- E) A, B and C

Answer: <https://biology-forums.com/index.php?topic=741346>

Question 1979

Microsoft Access 2013 can be used to prototype databases for _____.

Answer: <https://biology-forums.com/index.php?topic=740569>

Question 1980

To use Access 2013 data in an Excel 2013 PivotTable, we use the:

- A) "To Excel" command on the Access Data command tab.
- B) "To Excel" command on the Excel Data command tab.
- C) "From Access" command on the Access Data command tab.
- D) "From Access" command on the Excel Data command tab.
- E) "Get Data" command on the Excel Data command tab.

Answer: <https://biology-forums.com/index.php?topic=740878>

Question 1981

Which of the following is an account name for which you are asked to enter a password for the Oracle Database XE 11.2 utility?

- A) SYSTEM
- B) EXTERNAL
- C) INTERNAL
- D) A and B
- E) A, B and C

Answer: <https://biology-forums.com/index.php?topic=740977>

Question 1982

Besides decimal, two other number systems you might encounter in C++ programs are:

- A) Hexadecimal and Octal
- B) Octal and Fractal
- C) Base 7 and Base 9
- D) Unary and Quaternary
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741515>

Question 1983

Microsoft Access 2013 databases can be secured by deploying databases packaged with digital signatures.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740686>

Question 1984

Only large database systems have a need for database administration.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740663>

Question 1985

This is a special value that marks the end of a list of values.

- A) variable
- B) loop
- C) constant
- D) sentinel
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741684>

Question 1986

It is almost always best to design a table in a database so that it contains data on _____ theme.

Answer: <https://biology-forums.com/index.php?topic=740298>

Question 1987

As far as Microsoft Access is concerned, there are no 1:N relationships.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740607>

Question 1988

Look at the following code:

```
int numbers[] = {0, 1, 2, 3, 4 };  
int *ptr = numbers;  
ptr++;
```

After this code executes, which of the following statements is true?

- A) ptr will hold the address of numbers[1].
- B) ptr will hold the address of numbers[0].
- C) ptr will hold the address of the 2nd byte within the element numbers[0].
- D) This code will not compile.

Answer: <https://biology-forums.com/index.php?topic=741892>

Question 1989

True/False: You cannot directly assign an integer value to an enum variable.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741996>

Question 1990

XML stands for _____.

- A) Experimental Markup Language
- B) Extendable Markup Language
- C) Extensible Markup Language
- D) Active X-control Markup Language
- E) Active X-control Management Language

Answer: <https://biology-forums.com/index.php?topic=741418>

Question 1991

True/False: The cin << statement will stop reading input when it encounters a newline character.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741601>

Question 1992

If new data needs to be added to a linked list, the program simply _____ and inserts it into the series.

- A) allocates another node
- B) borrows a node from the compiler
- C) removes a node
- D) Either B or C
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742218>

Question 1993

A _____ function is one that calls itself

- A) data validation
- B) dynamic
- C) static
- D) recursive
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742293>

Question 1994

SQL Server 2014 Express requires that _____ be installed.

Answer: <https://biology-forums.com/index.php?topic=740942>

Question 1995

Describe how to create an OLAP report for a Microsoft Access 2013 database in Microsoft Excel 2013.

Answer: <https://biology-forums.com/index.php?topic=740919>

Question 1996

What is the least restrictive isolation level that will prevent nonrepeatable reads?

- A) Read Committed
- B) Serializable
- C) Read Uncommitted
- D) Atomic Read
- E) Repeatable Read

Answer: <https://biology-forums.com/index.php?topic=740702>

Question 1997

This function accepts a pointer to a C-string as an argument, and it returns the length of the C-string (not including the null terminator).

- A) strlen
- B) countstring
- C) strlen
- D) numchar
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741908>

Question 1998

To run an SQL script, click the _____ button on the Query Toolbar.

Answer: <https://biology-forums.com/index.php?topic=740949>

Question 1999

When using Microsoft Access and IIS, we can create Web pages that access the database using the popular _____ scripting language.

- A) PHP
- B) DSN
- C) DSP
- D) JSN
- E) PSJ

Answer: <https://biology-forums.com/index.php?topic=740794>

Question 2000

Microsoft Access SQL supports and will correctly implement the numeric data type with (m,n) notation.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740443>

Question 2001

Every complete C++ program must have a _____.

- A) symbolic constant
- B) function named main

- C) cout statement
- D) preprocessor directive
- E) comment

Answer: <https://biology-forums.com/index.php?topic=741535>

Question 2002

XML documents that conform to their DTD are said to be type-valid XML documents.
True or False?

Answer: <https://biology-forums.com/index.php?topic=741395>

Question 2003

True/False: If an exception is not caught, it is stored for later use.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742196>

Question 2004

A _____ stack or queue is built around the linked-list.

- A) deque-based
- B) dynamic
- C) floating point
- D) static
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742255>

Question 2005

Business Intelligence (BI) _____ are used to filter data, sort data, group data and make simple calculations based on the data.

Answer: <https://biology-forums.com/index.php?topic=741356>

Question 2006

The _____, also known as the address operator, returns the memory address of a variable.

- A) exclamation point (!)
- B) percent sign (%)
- C) ampersand (&)
- D) asterisk (*)
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741859>

Question 2007

OLAP provides the ability to sum, count, average and perform other simple arithmetic operations on groups of data.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740840>

Question 2008

Data mining is the application of mathematical and statistical techniques to find patterns and relationships that can be used to classify and predict.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741307>

Question 2009

What is a reporting system?

Answer: <https://biology-forums.com/index.php?topic=740909>

Question 2010

Market basket analysis is a data mining technique for determining which sets of products customers tend to purchase at the same time.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741313>

Question 2011

True/False: Only one file stream object can be declared per C++ program.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742028>

Question 2012

True/False: With pointer variables you can access, but you cannot modify, data in other variables.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741894>

Question 2013

The classic systems analysis methodology is called the _____.

Answer: <https://biology-forums.com/index.php?topic=741181>

Question 2014

With Oracle Database, using a sequence does not guarantee valid surrogate key values.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740971>

Question 2015

Microsoft Access 2013 switchboards are built in a report window in Microsoft Access 2013.

True or False?

Answer: <https://biology-forums.com/index.php?topic=741228>

Question 2016

To append a node to a list means to _____.

- A) delete a node from the end of the list
- B) add a node to the beginning of the list
- C) add a node to the end of the list
- D) delete a node from the beginning of the list
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742209>

Question 2017

True/False: When the fixed manipulator is used, the value specified by the setprecision manipulator will be the number of digits to appear after the decimal point.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741599>

Question 2018

When an error occurs, an exception is _____.

- A) passed
- B) thrown
- C) ignored
- D) created
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742169>

Question 2019

This is used in a program to mark the beginning or ending of a statement, or separate items in a list.

- A) Key Words
- B) Separators
- C) Operators
- D) Punctuation
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741471>

Question 2020

When you pass a pointer as an argument to a function, you must _____.

- A) not dereference the pointer in the function's body
- B) use the #include<func_ptr.h> statement
- C) dereference the pointer variable in the function prototype
- D) declare the pointer variable again in the function call
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741886>

Question 2021

The default section of a switch statement performs a similar task as the _____ portion of an if/else if statement.

- A) break
- B) trailing else
- C) conditional
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741644>

Question 2022

_____ provides the ability to sum, count, average and perform other simple arithmetic operations on groups of data.

Answer: <https://biology-forums.com/index.php?topic=741369>

Question 2023

The _____ decodes an instruction and generates electrical signals.

- A) Arithmetic and Logic Unit
- B) Control Unit
- C) BIOS
- D) Main memory
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741464>

Question 2024

The statement:

```
int grades[ ] = { 100, 90, 99, 80};
```

shows an example of:

- A) an illegal array declaration
- B) an illegal array initialization
- C) implicit array sizing
- D) default arguments
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741785>

Question 2025

True/False: You must declare all data members of a class before you declare member functions.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742079>

Question 2026

To define a C-string that will store students' last names of up to 25 characters in length, which is an appropriate statement?

- A) string lastName[25];
- B) char lastName[26];
- C) string lastName[24];
- D) char lastName[25];
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741931>

Question 2027

This is the escape sequence representing the null terminator.

- A) \0
- B) \n
- C) nullptr
- D) \t
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741906>

Question 2028

Which of the following is the correct technique for representing a M:N relationship using the relational model?

- A) An intersection relation is created, and the key of either entity is placed as a key in both the intersection relation and in the other relation.
- B) An intersection relation is created with a surrogate key, which is placed in each of the parent entities.
- C) An intersection relation is created, and the keys of both parent entities are placed as a composite key in the intersection relation.
- D) The key from either relation is placed as a foreign key in the other relation.
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=740624>

Question 2029

In a common form of RFM analysis, customers are sorted into _____ groups and given an associated score depending on their group.

Answer: <https://biology-forums.com/index.php?topic=741365>

Question 2030

In relational databases, query requests use a language called _____.

Answer: <https://biology-forums.com/index.php?topic=740299>

Question 2031

An example of a graph database is _____.

- A) Dynamo
- B) Couchbase Server
- C) Bigtable
- D) Neo4j
- E) MySQL

Answer: <https://biology-forums.com/index.php?topic=741417>

Question 2032

Standard SQL defines four _____, which specify which of the concurrency control problems are allowed to occur.

Answer: <https://biology-forums.com/index.php?topic=740718>

Question 2033

True/False: In C++ 11, the nullptr key word was introduced to represent the address 0.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=741896>

Question 2034

Look at the following declaration.

```
enum Tree { OAK, MAPLE, PINE };
```

What is the value of the following relational expression?

```
OAK > PINE
```

- A) true
- B) false
- C) This is an error. You cannot compare enumerators with relational operators.

Answer: <https://biology-forums.com/index.php?topic=741977>

Question 2035

What will the value of x be after the following statements execute?

```
int x = 0;  
int y = 5;  
int z = 4;
```

$x = y + z * 2;$

- A) 18
- B) 0
- C) 13
- D) unknown

Answer: <https://biology-forums.com/index.php?topic=741592>

Question 2036

This operator is used in C++ to represent equality.

- A) ==
- B) =
- C) ><
- D) !!
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741630>

Question 2037

In PHP, any programming language statements that are to be processed on the server must be enclosed in:

- A) <!-- and --!>.
- B) [php and php].
- C) (php and php).
- D) <?php and ?>.
- E) <server> and </server>.

Answer: <https://biology-forums.com/index.php?topic=740781>

Question 2038

Unified Modeling Language (UML) has quickly replaced the E-R Model as the most popular technique for creating data models. True or False?

Answer: <https://biology-forums.com/index.php?topic=740512>

Question 2039

Slowly changing dimensions are handled by a(n):

- A) operational database.
- B) dimensional database.
- C) structured storage.
- D) Either A or B
- E) All of the above

Answer: <https://biology-forums.com/index.php?topic=740864>

Question 2040

Briefly describe the various tasks of the primary key.

Answer: <https://biology-forums.com/index.php?topic=740402>

Question 2041

Describe how to create and run an SQL query in MySQL 5.6 Community Server Edition.

Answer: <https://biology-forums.com/index.php?topic=741069>

Question 2042

In SQL, to refer to a range of values in a WHERE clause, use the WITHIN keyword.

True or False?

Answer: <https://biology-forums.com/index.php?topic=740423>

Question 2043

True/False: A new node must always be made the last node in the list.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742234>

Question 2044

SQL stands for Structural Question Language.
True or False?

Answer: <https://biology-forums.com/index.php?topic=740251>

Question 2045

A(n) _____ is an abstract data type that stores and retrieves items in a last-in-first-out manner.

- A) queue
- B) vector
- C) array
- D) stack
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742246>

Question 2046

Explain the terms relation, tuple, and attribute.

Answer: <https://biology-forums.com/index.php?topic=740399>

Question 2047

What will the following code display?

```
int numbers[] = {99, 87, 66, 55, 101 };  
cout << numbers[3] << endl;
```

- A) 66
- B) 101
- C) 87
- D) 55

Answer: <https://biology-forums.com/index.php?topic=741812>

Question 2048

If T3 is a table with three columns C1, C2 and C3, where C1 is integer data, C2 is character data, and C3 is date data, which of the following would be the proper statement to have Oracle Database enter the date 02/10/14 into a row in table T3 while making sure that it is formatted correctly as shown?

- A) SET INTO T3 VALUES (101, 'Smith', '02/10/14');
- B) SET INTO T3 VALUES (101, 'Smith', TO_DATE ('02/10/14', 'DD/MM/YY'));
- C) INSERT INTO T3 VALUES (101, 'Smith', '02/10/2014');
- D) INSERT INTO T3 VALUES (101, 'Smith', TO_DATE ('02/10/14', 'DD/MM/YY'));
- E) Any of the above will work correctly.

Answer: <https://biology-forums.com/index.php?topic=740986>

Question 2049

When running the NetBeans IDE for the first time, use a default file workspace named:

- A) NetBeans Workspace.
- B) NetBeansProjects.
- C) Documents.
- D) My Documents.
- E) My Workspace.

Answer: <https://biology-forums.com/index.php?topic=741270>

Question 2050

In the following statement:

```
class car : public vehicle  
_____ is the base class.
```

- A) vehicle
- B) public
- C) class
- D) car
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742140>

Question 2051

Relational operators allow you to _____ numbers.

- A) add
- B) compare
- C) average
- D) multiply
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=741611>

Question 2052

True/False: The STL provides containers for deque and queue.

- A) True
- B) False

Answer: <https://biology-forums.com/index.php?topic=742282>

Question 2053

A report generated by a reporting system is delivered to the appropriate users via a printed report. This system uses which of the following report modes?

- A) Push
- B) Pull
- C) Query
- D) OLAP
- E) None of the above

Answer: <https://biology-forums.com/index.php?topic=741341>

Question 2054

When used by itself, this access flag causes a file's contents to be deleted if the file already exists.

- A) ios::in
- B) ios::app
- C) ios::out
- D) All of these
- E) None of these

Answer: <https://biology-forums.com/index.php?topic=742018>