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Question 1

```
Which of the following methods would properly compute the value of x % y (x mod y) recursively, assuming that x and y not negative numbers?
A) public int recursiveMod(int x, int y)
if (x < y) return y;
else return recursiveMod(x, y - x);
B) public int recursiveMod(int x, int y)
if (x == y) return 0;
else return recursiveMod(x - y, y) + 1;
C) public int recursiveMod(int x, int y)
if (x < y) return x;
else return recursiveMod(x - y, y) + 1;
D) public int recursiveMod(int x, int y)
if (x < y) return x;
else return recursiveMod(x - y, y);
E) public int recursiveMod(int x, int y)
while (x > y)
 x = x - y;
return x;
Answer: https://biology-forums.com/index.php?topic=342051
```

Question 2

Given the following assignment statement, which of the following answers is true regarding the order that the operators will be applied based on operator precedence? a = (b + c) * d / e - f; A) +, /, *, - B) *, /, *, - C) *, +, /, - D) +, -, *, / E) +, *, /, - Answer: https://biology-forums.com/index.php?topic=342141

Question 3

Having multiple class methods of the same name where each method has a different number of or type of parameters is known as

- A) method overloading
- B) importing
- C) encapsulation
- D) information hiding
- E) tokenizing
- Answer: https://biology-forums.com/index.php?topic=342201

Question 4

A unique aspect of Java that allows code compiled on one machine to be executed on a machine of a different hardware platform is Java's

- A) syntax
- B) use of exception handling
- C) bytecodes
- D) use of objects
- E) all of the above

Answer: https://biology-forums.com/index.php?topic=342119

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Question 5

StringTokenizer is a class in the java.util library that can divide a String based on some delimiter String (a delimiter is a separator). If the instruction StringTokener st = new StringTokenizer(str, "&&"); is executed, where str is some String, then st divides up str into separate Strings whenever

- A) two ampersands are found
- B) two blank spaces are found
- C) a blank space is found
- D) two ampersands or the substring "and" or "AND" is found
- E) a single ampersand ("&") is found
- Answer: https://biology-forums.com/index.php?topic=342207

Question 6

```
If x is currently 0, a = 1 and b = -1, what will x become after the above statement is executed?

A) 0

B) 2

C) 3

D) 4

E) 5

Answer: https://biology-forums.com/index.php?topic=342219
```

Question 7

The size of each rectangle (bar)

- A) increases in width while staying the same height
- B) stays the same size
- C) decreases in height while staying the same width
- D) increases in height while staying the same width
- E) increases in both width and height
- Answer: https://biology-forums.com/index.php?topic=342233

Question 8

```
Both the Insertion Sort and the Selection Sort algorithms have efficiencies on the order of ______ where n is the number of values in the array being sorted.

A) n

B) n2

C) n * log n

D) n3

E) Insertion sort has an efficiency of n and Selection Sort has an efficiency of n2

Answer: https://biology-forums.com/index.php?topic=341922
```

Question 9

```
"class Aggregate" is incorrect. Choose the correct line so that this program prints

Granite: weight=25.0 value=4 numKind=7
public class Inherit
{
    abstract class Stone
    {
        protected float weight = 13;
        protected int value = 4;
        abstract public String toString();
    }
    class Aggregate
    {
        protected int numKind;
    }
    class Granite extends Aggregate
    {
        Granite()
    }
```

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```
weight = 25; numKind = 7;
 }
 public String toString()
 {
  return "Granite: weight="
  + weight + " value="
   + value + " numKind="
   + numKind:
 }
 }
 Inherit()
 Granite g = new Granite();
 System.out.println(g);
 public static void main(String[] args)
 {
 new Inherit();
 }
A) class Aggregate extends Stone {
B) abstract class Aggregate {
C) abstract class Aggregate extends Granite {
D) abstract class Aggregate extends Stone {
E) none of the above
Answer: https://biology-forums.com/index.php?topic=341988
```

Question 10

Java does not support multiple inheritance, but some of the abilities of multiple inheritance are available by

- A) implementing interfaces
- B) importing classes
- C) overriding parent class methods
- D) creating aliases
- E) using public rather than protected or private modifiers
- Answer: https://biology-forums.com/index.php?topic=342251

Question 11

Java does not support multiple inheritance, but some of the abilities of multiple inheritance are available by

- A) overriding parent class methods
- B) using public rather than protected or private modifiers
- C) implementing interfaces
- D) creating aliases
- E) importing classes
- Answer: https://biology-forums.com/index.php?topic=341948

Question 12

Inheritance through an extended (derived) class supports which of the following concepts?

- A) correctness
- B) code reuse
- C) interfaces
- D) information hiding
- E) modulary
- Answer: https://biology-forums.com/index.php?topic=341945

Question 13

Assume at some point in processing, grid's row 0 has become 3 3 3 1 1 1 0 0. Which direction will next be tried?

- A) up
- B) left
- C) right

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D) down

E) none, the recursion ends at this point

Answer: https://biology-forums.com/index.php?topic=342052

Question 14

Which of the following is a legal Java identifier?

A) i

B) class

C) ilikeclass!

D) idon'tlikeclass

E) i-like-class

Answer: https://biology-forums.com/index.php?topic=342118

Question 15

Which of the following is true regarding Java classes?

- A) All classes must have 1 child (derived or extended) class but may have any number of parent classes
- B) All classes can have any number (0 or more) of parent classes and any number of children (derived or extended) classes
- C) All classes must have 1 parent class and may have a single child (derived or extended) class
- D) All classes can have either 0 or 1 parent class and any number of children (derived or extended) classes
- E) All classes must have 1 parent but may have any number of children (derived or extended) classes

Answer: https://biology-forums.com/index.php?topic=341956

Question 16

If a method does not have a return statement, then

- A) it must be a void method
- B) it will produce a syntax error when compiled
- C) it must be defined to be a public method
- D) it can not be called from outside the class that defined the method
- E) it must be an int, double, float or String method

Answer: https://biology-forums.com/index.php?topic=342197

Question 17

What is output if x = 0, y = 1 and z = 1?

A) 0.0

B) 0

C) 0.67

D) 0.66666666666667

E) 0.66666666666666

Answer: https://biology-forums.com/index.php?topic=342159

Question 18

The statement int[] list = $\{5, 10, 15, 20\}$;

- A) initializes list to have 4 int values
- B) declares list but does not initialize it
- C) causes a syntax error because it does not include "new int[4]" prior to the list of values
- D) initializes list to have 20 int values
- E) adds 4 int values to array list

Answer: https://biology-forums.com/index.php?topic=341930

Question 19

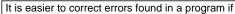
Abstract Data Types have which of the following object-oriented features?

- A) polymorphism
- B) information hiding
- C) inheritance
- D) message passing
- E) all of the above

Answer: https://biology-forums.com/index.php?topic=342064

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Question 20



- A) they are identified early in the development cycle
- B) they are identified during program use
- C) they are identified during maintenance
- D) they are identified during testing
- E) all of the above are equally true, errors are easily corrected in any of these stages

Answer: https://biology-forums.com/index.php?topic=342242