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Shared by Thomas on 12-12-2023

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Question 1

Given the code fragment:

```
int a = 3;
a = ++a + a++;
a = --a - a--;
System.out.println (a);
```

What is the output?

Options:

A- 8

B- 3

C- 0

D- A compilation error occurs.

Answer:

C

Question 2

Identify three features of the Java programming language.

Options:

A- distributed

B- direct memory management

C- multithreaded

D- strongly typed

E- dynamically typed

Answer:

A, C, E

Question 3

Question Type: **MultipleChoice**

Given the code fragment:

```
int count = 0;
while (count <= 10) {
    System.out.print (count + " ");
    /* line n1 */
}
```

Which statement, when inserted at line n1, enables the code to print 0 2 4 6 8 10?

Options:

A- count = (count++) +1;

B- count = count++;

C- count =+ 2;

D- count += 2;

Answer:

D

Question 4

What is the meaning of "write once, run anywhere" in Java?

Options:

A- Java programs are designed to run only in web browsers and, thus, can run wherever there is a browser.

B- It is a marketing statement because Java programs must be compiled for a specific platform in order to run.

C- Java programs can run on any Java Virtual Machine without being recompiled.

D- Java programs, after being compiled, can run on any platform or device even without a Java Virtual Machine.

Answer:
C

Question 5

Question Type: **MultipleChoice**

What does import java.io* mean?

Options:

A- Only the io class is imported.

B- All classes in the io package are imported.

C- All classes whose names start with io are imported.

D- All classes in the io package and the subpackages of io packages, if any, are imported.

Answer:

D

Question 6

Question Type: **MultipleChoice**

Given the code fragment:

```
public static void main(String[] args) {
    String name = "Rita";
    int age = 14;
    /* line n1 */
}
```

Which code fragment, when inserted at line n1, enables it to print Rita is 14 years old?

A- System.out.println("%s is %d years old" +name+age);

B- System.out.println("%s is %n years old" name, age);

C- System.out.printf("%s is %d years old", name, age);

D- System.out.printf("%s is %n years old", name, age);

Answer:

C

Question 7

Question Type: **MultipleChoice**

Which method identifier is correct according to Java naming conventions?

Options:

A- BillCalculator

B- calculateBill

C- calculatebill

D- Calculator

Answer:

D

Question 8

Question Type: **MultipleChoice**

Given the code

```
int   num = 100;
int count = 0;
do {
    num--;
    count++;
} while (count > 1);
System.out.println ("num = " + num);
```

What is the result?

Options:

A- The program executes indefinitely.

B- num = 100

C- num = 99

D- num = 0

Answer:

C

Question 9

Question Type: MultipleChoice

Which statement is true about exception handling?

Options:

A- At least one catch block must accompany a try statement.

B- All statements in a try block are executed, even if an exception occurs in the middle of the try block.

C- At least one statement in a try block must throw an exception.

D- All catch blocks must be ordered from general to most specific.

Answer:

D

Question 10

Question Type: MultipleChoice

Given the classes:

```
Apple.java:

package fruits;
class Apple {
    public void getApple () { }
}

Salad.java:

package food;
// line n1
class Salad {
    Apple apple = new Apple (); // line n2
    public void prepareSalad {
        apple.getApple () ;
    }
}
```

Which two modifications, independently, enable the Salad.java file to compile?

Options:

A- Replace line n1 with import fruits.Apple.getApple();

B- Replace line n1 with import fruits.Apple;

C- Replace line n1 with import fruits;

D- Replace line n2 with fruits.Apple apple = new Apple ();

E- Replace line n2 with fruits.Apple apple = new fruits.Apple ();

Answer:

A, D

Question 11

Question Type: MultipleChoice

Given:

```
1. class Test {
2.    /* comment text 1 */
3.    // comment text 2   //
4.    // comment text 3
5.    and comment text 4 //
6.    /* comment text 5
7.    and comment text 6 */
8. }
```

At which line does a compilation error occur?

Options:

A- line 5

B- line 2

C- line 3

D- line 7

Answer:

B