Question 1

Identify two class variables.

Options:

A- private static int numberOfSquares = 20;

B- public static int counter = 0;

C- private Measure cm;

D- public int size = 10;

E- int scale = 35;

Answer:

A, B

Question 2

Identify two valid data types for the operands of the addition (+) operator?

Options:

A- string

B- boolean

C- numeric

D- array

Answer:

A, D

Question 3

Question Type: MultipleChoice

Which statement is true about a mutator method?

Options:

A- It replaces the default constructor.

B- It returns mutated instance members.

C- It must be declared private.

D- It can be used to assign data to instance members.

Answer:

B

Question 4

Question Type: **MultipleChoice**

Given the code fragment:

```
// line n1
switch (var) {
    case "1":
    System.out.println ("one");
    break;
}
```

Which code fragment, when inserted at line n1, enables the code to print one?

Options:

A- char var = '1';

B- String var = "1";

C- int var = 1;

D- String var = 1;

Answer:

B

Question 5

You have a microprocessor board, such as Raspberry PI, wired to control a drone.

Which edition of Java is geared towards use of simple, closed systems with constrained memory requirements, such as a microprocessor board?

Options:

A- Java Micro Edition

B- Java Standard Edition with a Compact Profile

C- Java Enterprise Edition

D- Java SE Embedded

Answer:

D

Question 6

Question Type: MultipleChoice

Given the code:

```
public class Calc {
    // line n1
        return a + b;
    }
    public static void main(String[] args) {
        Calc obj = new Calc();
        int c = obj.sum(10, 20);
        System.out.println("sum is " + c);
    }
}
```

Which code fragment, when inserted at line n1, enables the code to print sum is 30?

Options:

A- int sum(int a, b) {

B- int sum(int a, int b) {

C- int sum(int, int) {

D- int sum(int[] a, b) {

Answer:

D

Question 7

Given:

```
class Product {
     String color = null;
     Product (Product p) {
          this.color = p.color;
     }
}
```

And the code fragment:

```
Product p1 = new Product ();      // line n1
p1.color = "White";
Product p2 = new Product (p1);
System.out.println (p1.color + " : " + p2.color);
```

What is the result?

Options:

A- A compilation error occurs at line n1.

B- White : null

C- null: null

D- White : White

Answer:

C

Question 8

Question Type: MultipleChoice

Given the code fragment:

```
// line n1
num = new int[10];
```

Which code fragment can be inserted at line n1 to enable the code to compile?

Options:

A- new int num[];

B- int[] num;

C- int[10] num;

D- int num[10];

Question 9

Question Type: MultipleChoice

Identify two features of Java.

Options:

A- architecture dependent

B- platform independent

C- single threaded

D- robust

Question 10

Question Type: MultipleChoice

Which two statements are true about the Java Runtime Environment (JRE)?

Options:

A- It is responsible for garbage collection.

B- It interprets bytecode stored in a .class file.

C- It contains the JDK and Java APIs.

D- It is platform independent.

E- You must install the JRE to compile a .java file.

Answer:

B, D

Question 11

Given the code fragment:

```
class Ball {
    double weight;
}
public class App {
    public static void main(String[] args) {
        //line n1
        System.out.println(b.weight);
    }
}
```

Which code fragment can be inserted at line n1 to enable the code to print 0.0?

Options:

A- Ball b = null;

b.weight = 0.0;

B- Ball.weight = 0.0;

C- Ball b = new Ball(0.0);

D- Ball b = new Ball();

Answer:

D