



## I. Multiple Choices Questions

1- Choose the correct answer if we want to add the weight=2 & price=20 of the apple item

```
class product {  
  
    public int weight;  
  
    public float price;  
  
}  
  
public class CAppleClass{  
  
    public static void main(String args[]) {  
  
        product apple =new product();
```

Fill in here from the choices below

- ```
}
```
- ```
}
```
- ☒ A apple.weight=2; apple.price= (float) 20.0;
  - ☐ B apple->weight=2; apple->price= (int) 20.0;
  - ☐ C apple-weight=2; apple--price= (float) 20.0;
  - ☒ D Error.



2- What is the output of the following program ?

```
public class MyfinalClass
{
    final int x=40;
    public static void main(String args[]) {
        MyfinalClass myobj=new MyfinalClass();
        System.out.println("The value of x is:" + myobj.x);
        myobj.x=30;
        System.out.println("The value of x is:" + myobj.x);
    } }
```

(A) The value of x is: 40

(B) The value of x is: 30

(C) The value of x is: 40

The value of x is: 30

(D) Error

3- What is the output of the following program ?

```
public class AnswerExpensiveOrNo
{
    public static void main(String args[]) {
        boolean x = false;
        int y=20, z=30, m=0;
        if (x=true) {
            System.out.println("The value of x is:" + x);
        }
        m=(y>z) ? y:z;
        System.out.println("The value of m is " + m);
    } }
```

(A) The value of x is: true

(B) The value of m is 30

(C) The value of x is:true

The value of m is 30  
(D) The value of x is true

The value of m is 20



4- State the number of lines in the following program that will cause error ?

Cstudent.java	Cstudenttest.java
<pre> 1 public class Cstudent { 2     private static double science_marks; 3     private static double math_marks; 4     private static double calculate_total_marks() { 5         double total; 6         total = math_marks + science_marks; 7         return total; 8     } 9     public static void calculate_grade () { 10         char grade='C'; 11         double overall_calculate_total_marks(); 12         if ((overall_calculate_total_marks() &gt;= 80)) grade='A'; 13         else if ((overall_calculate_total_marks() &gt;= 70)) grade='B'; 14         else if ((overall_calculate_total_marks() &gt;= 60)) grade='C'; 15         else grade='D'; 16         System.out.println(grade); 17     } 18 } </pre>	<pre> 1 public class Cstudenttest { 2     public static void main(String args[]) { 3         float a=4; 4         Cstudent c=new Cstudent(); 5         c.science_marks=55; 6         c.math_marks=70; 7         c.calculate_total_marks(); 8         c.calculate_grade (); 9     } 10 } </pre>

- (A) Lines number 2, 3, 4 in the File name Cstudent.java  
 (B) Lines number 4, 5, 6 in the File name Cstudenttest.java  
 (C) Lines number 5, 6, 7 in the File name Cstudenttest.java  
 (D) Lines number 7 and 8 in the File name Cstudenttest.java

5- What is the output of the following program ?

```

class Vehicle
{
    int maxspeed=140;
}
class Car extends Vehicle
{
    int maxspeed=170;
    public void Display() {System.out.println("the maximum speed is " + super.maxspeed);}
}
public class MyClassTest {
    public static void main(String args[]) {
        Car obj=new Car();
        obj.Display();
    }
}

```

- (A) the maximum speed is 170  
 (B) the maximum speed is 140  
 (C) the maximum speed is 0  
 (D) ERROR

6- What is the value of n after the following switch statement?

```
int n = 22;
switch(n)
{
    case 20: n++;
              break;
    case 22: n--;
              break;
    case 23: --n;
              break;
    case 24: n*=3;
              break;
    default: n = n*5;
};
```

(A) 20

(B) 21

(C) 22

(D) 110

21

20

7- A class is the blueprint of an -----

(A) class

(B) object

(C) method

(D) all the above

9- What is the output of the following program?

```
public class MyClass {
    public static void main(String args[]) {
        double a = 10;
        double b = 10.75;
        int c = 10;
        System.out.println(c + (((int)b > a)? b : a));
    }
}
```

(A) 20

(B) 20.75

(C) 10.75

(D) None of the above

10 + 10  
20

1. Which of the following class definitions is correct in Java?

Ⓐ public int class Cstudent{

public static void main (String args[]) {

int x = 20, y = 10, z=0;

if (x > 29)

y = x + 11;

System.out.println("x = " + x + ", y = " + y + ", z = " + z);

}

};

Ⓑ public class 3Cstudent{

public static void main (String args[]) {

int x = 20, y = 10, z=0;

if (x > 29)

y = x + 11;

System.out.println("x = " + x + ", y = " + y + ", z = " + z);

}

};

Ⓒ public class Cstudent{

public static void main (String args[]) {

int x = 20, y = 10, z=0;

if (x > 29)

y = x + 11;

System.out.println("x = " + x + ", y = " + y + ", z = " + z);

}

}

Ⓓ int public class Cstudent{

public static void main (String args[]) {



```
int x = 20, y = 10, z = 0;
```

```
if (x > 29)
```

```
    y = x + 11;
```

```
    System.out.println("x = " + x + ", y = " + y + ", z = " + z);
```

```
}
```

```
}
```

10- Which one of the following is a correct in Java to express: y is between x and z

☐ (A)  $x < y < z$

☐ (B)  $x \leq y \leq z$

☒ (C)  $y > x \ \&\& \ y < z$

☐ (D)  $y \geq (x \ \&\& \ y) \geq z$

## II. True or False Questions

1- The compiler will create a default constructor only if your class does not declare any constructors of its own

☒ (A) True

☐ (B) False

*object?*

2-

a. The class can be declared as private as long as it is nested class.

☐ (A) True

☒ (B) False

3- An overriding method has the same name as in the superclass, but a different signature.

*Same*

☐ (A) True

☒ (B) False

4- Protected members are accessible only to methods of their class and to methods of their subclasses

☒ (A) True

☐ (B) False

5- Objects of abstract superclasses can be instantiated

☐ (A) True

☒ (B) False

6- When a subclass redefines a superclass method by using the same signature, the subclass is said to overload that superclass method.

☐ (A) True

☒ (B) False

7- Subclass constructors can call superclass constructors via the keyword super

☒ (A) True

☐ (B) False

8- A file may contain as many classes as you like as long as each of these classes is declared public.

☒ A True

☐ B False

9- Polymorphism enables objects of different classes that are related by a class hierarchy to be processed generically

☒ A True

☐ B False

10- At most one package declaration can appear in a source file, and the package keyword creates a package.

☒ A True

☐ B False