

1. What will be the output of the following Java program?

```
1. class Output
2. {
3.     public static void main(String args[])
4.     {
5.         int a = 1;
6.         int b = 2;
7.         int c;
8.         int d;
9.         c = ++b;
10.        d = a++;
11.        c++;
12.        b++;
13.        ++a;
14.        System.out.println(a + " " + b + " " + c);
15.    }
16. }
```

- a) 3 2 4
- b) 3 2 3
- c) 2 3 4
- d) 3 4 4

2. What will be the output of the following Java program?

```
1. class dynamic_initialization
2. {
3.     public static void main(String args[])
4.     {
5.         double a, b;
6.         a = 3.0;
7.         b = 4.0;
8.         double c = Math.sqrt(a * a + b * b);
9.         System.out.println(c);
10.    }
11. }
```

- a) 5.0
- b) 25.0
- c) 7.0
- d) Compilation Error

3. Which of the following is a valid declaration of an object of class Box?

- a) Box obj = new Box();
- b) Box obj = new Box;
- c) obj = new Box();
- d) new Box obj;

4. What is the extension of java code files?

- a) .class
- b) .java
- c) .txt
- d) .js

5. What is the output of the following Java Code?

```
1. int a=9;  
2. float b = a/2;  
3. System.out.println(b);
```

- A) 4.0
- B) 4.5
- C) 5.0
- D) None of the above

6. How JAVA is Platform independent programming language but not C++ ?

9) Choose the number range for byte data type in Java?

- A) -127 to +128
- B) -128 to +127
- C) 0 to 256
- D) 0 to 255

10. What is heap and stack?

11. Draw and explain components of JVM architecture ?

12. What will be the output of the following Java program?

```
1.    class increment
2.    {
3.        public static void main(String args[])
4.        {
5.            double var1 = 1 + 5;
6.            double var2 = var1 / 4;
7.            int var3 = 1 + 5;
8.            int var4 = var3 / 4;
9.            System.out.print(var2 + " " + var4);
10.
11.        }
12.    }
```

- a) 1 1
- b) 0 1
- c) 1.5 1
- d) 1.5 1.0

13. What will be the output of the following Java program?

```
1.    class increment
2.    {
3.        public static void main(String args[])
4.        {
5.            int g = 3;
6.            System.out.print(++g * 8);
7.        }
8.    }
```

- a) 25
- b) 24
- c) 32
- d) 33

14. Where objects of a class get stored?

- a) Heap
- b) Stack
- c) Disk
- d) File

15. Java uses two stage systems for program execution. They are

- a) Compiler and instruction
- b) Compiler and interpreter
- c) Copy and compiler
- d) None