

1) What is the output of the program?

```
class Operators {
    public static void main(String args[]) {
        int x = 8;
        System.out.println(++x * 3 + "," + x);
    }
}
```

- a) 24,8
- b) 24,9
- c) 27,8
- d) 27,9

2) what is the output of the program?

```
class Equals{
public static void main(String [] args){
    int x = 100;
    double y = 100.1;
    boolean b = (x = y);
    System.out.println(b);
}
}
```

- a) true
- b) false
- c) Compilation fails
- d) An exception is thrown at run time

3) What is the output of this program?

```
class string_class {
    public static void main(String args[]){
        String obj = "hello";
        String obj1 = "world";
        String obj2 = "hello";
        System.out.println(obj.equals(obj1) + " " + obj.equals(obj2));
    }
}
```

- a) false false
- b) true true
- c) true false
- d) false true

4) Consider the following program:

```
import java.util.Scanner;
public class MyClass {
    public static void main(String [] args) {
        Scanner read = new Scanner (System.in);
        boolean a = read.nextBoolean();
        boolean b = read.nextBoolean();
        if( a ){
            System.out.println("A");
        }
        else if(a && b){
            System.out.println( "A && B");
        }
    }
}
```

```

        else{
            if ( !b ){
                System.out.println( "notB" ) ;
            }
            else{
                System.out.println( "ELSE" ) ;
            }
        }
    }
}

```

Which of the following statements is true?

- a) If a is true and b is true then the output is A && B
- b) If a is true and b is false then the output is notB
- c) If a is false and b is true then the output is ELSE
- d) If a is false and b is false then the output is ELSE

5)

```

int var1=5, var2=6, var3=7;
if(++var1 > var2++ || var1-- > 0)
    var3++;
else
    var3--;
System.out.println(var1+" "+var2+" "+var3);

```

- a) 5 7 8
- b) 1 2 3
- c) 5 7 9
- d) 4 7 9

6) Consider the following program:

```

public class While { /* Line 1 */
    public static void main(String [] args) {
        int x= 0;
        while ( 1 ) /* Line 4 */
        {
            System.out.print("x plus one is " + (x + 1)); /* Line 6 */
        }
    }
}

```

Which statement is true?

- a) There is a syntax error on line 1.
- b) There are syntax errors on lines 1 and 4.
- c) There are syntax errors on lines 1, 4, and 6.
- d) There is a syntax error on line 4.

7) What will be the output of the program?

```
class SSBool{
    public static void main(String [] args){
        boolean b1 = true;
        boolean b2 = false;
        boolean b3 = true;
        if ( b1 && b2 || b2 && b3 || b2 ) /* Line 8 */
            System.out.print("ok ");
        if ( b1 & b2 || b2 & b3 || b2 || b1 ) /*Line 10*/
            System.out.println("dokey");
    }
}
```

- a) ok
- b) dokey
- c) ok dokey
- d) No output is produced

8) What will be the output of the following code?

```
public class Test {
    public static void main(String args[]) {
        int x = 10;
        do {
            if (x%15==0)
                System.out.println("value of x : " + x );
            x++;
        }while( x < 20 );
    }
}
```

- a) value of x : 15
- b) value of x : 10
- c) value of x : 20
- d) compilation error

9) What will be the output of the following code?

```
public class test {
    public static void main(String args[]) {
        char c = 'a';
        switch (c)
        {
            case 'a': System.out.print("1");
            case 'b': System.out.print("2");
            case 'c': System.out.print("3");
        }
        System.out.println("Done");
    }
}
```

- a) Done
- b) 1Done
- c) 3Done
- d) 123Done

10) What will be the output of the following code?

```
public class TestClass {
    public static void main() {
        int x = 10;
        int y = x-- -1;
        if( x == y ){
            System.out.print("-first equal-");
        }
        else if(x++ == y){
            System.out.print( "-second equal-");
        }
        else{
            System.out.println( "-not equal-" ) ;
        }
    }
}
```

- a) -first equal-
- b) -second equal-
- c) -not equal-
- d) -first equal- -second equal-

11) What is the output of this code, if any?

```
int number = 4;
while (number <= 5)
    if ((number % 2) != 0)
        System.out.print(number + ",");
    number -= 1;
```

- a) 4,3,
- b) 3,2,
- c) Infinite Loop
- d) 4,

12) After execution of the following code, what will be the value of **cnt**?

```
int cnt = 20;
if (cnt > 6)
    cnt = cnt + 5;
else if (cnt > 10)
    cnt = cnt + 15;
else cnt = 9;
System.out.println(cnt);
```

- a) 20
- b) 25
- c) 18
- d) 17

a) Convert the following switch statement into if –else statement

```
int choice = input.nextInt();
switch (choice) {
case 1:
    System.out.println("one");
case 2:
    System.out.println("two");
    break;
case 3:
    System.out.println("three");
    break;
case 4:
    System.out.println("four");
case 5:
    System.out.println("five");
    break;
default:
    System.out.println("Invalid Entry");
    break;
}
```

b) What will be the output of the following program if boolean variable **a** is **false** and variable **b** is **true**?

```
boolean a = false;
boolean b = true;
if (a) {
    System.out.println("One");
}
else if (a && b) {

    System.out.println("Two");
}
else {

    if (!b) {
        System.out.println("Three");
    }
    else {
        System.out.println("Four");
    }
}
```