



OBJECT ORIENTED PROGRAMMING WITH JAVA

Assignment 12

TYPE OF QUESTION: MCQ

Number of questions: 10

Total mark: $10 \times 1 = 10$

QUESTION 1:

What is the output of the below code segment?

```
class Program {  
    public static void main(String[] args) {  
        int a = 2;  
        char a = '4';  
        System.out.println("Output "+a+b);  
    }  
}
```

- a. The output is: Output 6
- b. The output is: Output 24
- c. There is one error.
- d. There are two errors.

Correct Answer: d

Detailed Solution: There are two errors:

- (1) *variable a is already defined in method main(String[])*
- (2) *cannot find symbol System.out.println("Output"+a+b);*

QUESTION 2:

What is the output of the below code segment?

```
class Program {  
    public static void main(String[] args) {  
        int a = 2;  
        char b = '4';  
        System.out.println("Output "+a+b);  
    }  
}
```



- ```
 }
}
```
- a. The output is: Output 6
  - b. The output is: Output 24
  - c. There is one error.
  - d. There are two errors.

**Correct Answer: b**

**Detailed Solution:** A concatenation of variable a and b is happening which makes 24.

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### **QUESTION 3:**

**What is the output of the below code segment?**

```
class Program {
 public static void main(String[] args) {
 int a = 5;
 char b = '4';
 for(int count=0; count<a; count++){
 System.out.println(b);
 b++;
 }
 }
}
```

- a. DEFGH
- b. defgh
- c. 45678
- d. 44444

**Correct Answer: c**

**Detailed Solution:** The ++ operator in character variable increments the value.

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### **QUESTION 4:**

**What is the output of the following code?**

```
class Program {
```



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```
public static void main(String[] args) {
 int counter = 10;
 do{System.out.print(2/counter);
 counter--;
 }while(counter>2);
}
```

- a) 00000012
- b) 00000000
- c) 10011001
- d) 12211221

**Correct Answer: b**

**Detailed Solution:**

The output of the above program is 00000000.

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**QUESTION 5:**

**What should be the value of Z for the output to be 12?**

```
class Program {
 public static void main(String[] args) {
 int counter = 100;
 do{
 counter = counter/2;
 } while(counter>Z);
 System.out.print(counter);
 }
}
```

- a. 50
- b. 25
- c. 20
- d. 05

**Correct Answer: c**

**Detailed Solution:**

Any value of **Z** between 24 and 12 will give the output 12. So, 20 is the correct option.



**QUESTION 6:**

**Consider the following program:**

```
String animal = "GOAT";
switch (animal) {
 break: System.out.println("DOMESTIC");
}
```

**What is the output of the Java program given above?**

- a) No output
- b) GOAT
- c) DOMESTIC
- d) Compiler error

**Correct Answer: d**

**Explanation:**

Case statements should start with either "case" or "default" only.

**QUESTION 7:**

**Consider the following program:**

```
public class Question{
 public static void main(String[] args) {
 String str = "NPTEL Programming in Java";
 System.out.println(str.substring(6, 13));
 }
}
```



**What is the output of the following program?**

- a. in java
- b. Program
- c. NPTEL
- d. program

**Correct Answer: b**

**Detailed Solution:** The substring method is used to get a part of the string as per the range parameters.

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### **QUESTION 8:**

**Which of the following are correct statement for array declaration?**

- a. `float[] = new float(3);`
- b. `float f2[] = new float[];`
- c. `float[] f1 = new float[3];`
- d. `float f3[] = new float[3];`

**Correct Answer: c, d**

**Detailed Solution:**

Option (c) and (d) are syntactically correct for declaration of an array whereas (a), (b) will cause error.

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### **QUESTION 9:**

**Consider the following piece of code in Java.**

```
public class Test {
 public static void aMethod() throws Exception {
 try {
 throw new Exception();
 }
 finally {
```



```
 System.out.print("finally ");
 }
}
public static void main(String args[]){
 try {
 aMethod();
 }
 catch (Exception e) {
 System.out.print("exception ");
 } finally {
 System.out.print("finally ");
 }

 System.out.print("finished ");
}
}
```

**What is the result, if the above-mentioned program is executed?**

- a. finally
- b. finally exception finally finished
- c. finally exception finished
- d. Compilation fails

**Correct Answer: b**

**Detailed Solution:**

The program is syntactically correct and here for two try blocks.

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### **QUESTION 10:**

**What should be the value of X and Y for the output of the below program to be 36?**

```
public class Question{

 public static void main(String[] args) {

 int X=10;

 int Y=5;

 int sum = 0;

 for(int i = 0; i<10; i++){

 for(int j=i; j<5; j++){

 sum = sum+j;

 }

 }

 }

}
```



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```
 }
}
System.out.print(sum);
}
}
```

- a)  $X = 4$  and  $Y = 5$
- b)  $X = 6$  and  $Y = 5$
- c)  $X = 2$  and  $Y = 7$
- d)  $X = 1$  and  $Y = 9$

**Correct Answer: a and d**

**Detailed Solution:**

The following is the output of the program for different values of X and Y:

- a) *when  $X = 4$  and  $Y = 5$  output is **36***
- b) *when  $X = 6$  and  $Y = 5$  output is **40***
- c) *when  $X = 2$  and  $Y = 7$  output is **42***
- d) *when  $X = 1$  and  $Y = 9$  output is **36***

Therefore, the correct answers are option **a** and **d**.

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\*\*\*\*\*END\*\*\*\*\*