

Logical Operator MCQs:

1. What is the output of the program:

java

```
boolean a = true;  
boolean b = false;  
boolean c = true;  
boolean result = (a && b) || (b && c);
```

- a) true
- b) false
- c) Compilation error
- d) Depends on the values of `a`, `b`, and `c`

2.What is the output of the program:

java

```
int x = 5;  
int y = 10;  
boolean result = (++x > 5) && (--y < 10);  
System.out.println(result);
```

- a) true
- b) false
- c) Compilation error
- d) Depends on the values of `x` and `y`

3. What is the output of the program?

java

```
boolean p = true;  
boolean q = false;  
boolean r = true;  
boolean result = (p || q) && (q || r);
```

- a) true
- b) false
- c) Compilation error
- d) Depends on the values of `p`, `q`, and `r`

4. What is the output of the program:

```
class Program1
{
    public static void main(String[] args)
    {
        int a=20;
        int b=30;
        System.out.println(a++>15 && b++>20);
        System.out.println(a);
        System.out.println(b);
    }
}
```

- a) true, 20, 30
- b) false, 21, 30
- c) true, 21, 31
- d) false, 21, 31

5. What is the output of the program:

```
class Program1
{
    public static void main(String[] args)
    {
        int a=20;
        int b=30;
        System.out.println(a++>25 && b++>20);
        System.out.println(a);
        System.out.println(b);
    }
}
```

- a) true, 20, 30
- b) false, 21, 30
- c) true, 21, 31
- d) false, 21, 31

6.What is the output of the program:

```
class Program1
{
    public static void main(String[] args)
    {
        int a=20;
        int b=30;
        System.out.println(a++>25 || b++>20);
        System.out.println(a);
        System.out.println(b);
    }
}
```

- a) true, 20, 30
- b) false, 21, 30
- c) true, 21, 31
- d) false, 21, 31

7.What is the output of the program:

```
class Program1
{
    public static void main(String[] args)
    {
        int a=20;
        int b=30;
        System.out.println(a++>15 || b++>20);
        System.out.println(a);
        System.out.println(b);
    }
}
```

- a) true, 21, 30
- b) false, 21, 30
- c) true, 21, 31
- d) false, 21, 31