

Flow Control MCQs:

1. What is the purpose of the if-else statement in Java?

- a) It is used for loop iterations.
- b) It is used for defining methods.
- c) It is used for making decisions based on conditions.
- d) It is used for defining class constructors.

2. How many blocks of code can an if-else statement contain?

- a) One
- b) Two
- c) Three
- d) Unlimited

3. How many blocks of code can an else-if statement contain?

- a) One
- b) Two
- c) Three
- d) Unlimited

4. What is the syntax for a simple if statement in Java?

- a) `if (condition) { // code }`
- b) `if { // code }`
- c) `(condition) if { // code }`
- d) `if condition then { // code }`

5. What is the syntax for an if-else statement in Java?

- a) `if (condition) { // code }`
- b) `else (condition) { // code }`
- c) `if (condition) { // code } else { // code }`
- d) `if { // code } else { // code }`

6. What is the primary purpose of using the else if statement in Java?

- a) To terminate the program.
- b) To create a loop.
- c) To define a new class.
- d) To provide multiple alternative conditions.

7. When can you write an if-else statement without using curly braces for the block of code?

- a) when there are multiple statements inside if-else.
- b) when there is only one statement inside if-else.
- c) it is not possible to write if-else without curly braces
- d) in any situation we can write without curly braces

8. What is the output of the following code?

java

```
int x = 10;  
if (x > 5)  
    System.out.println("A");  
else if (x > 7)  
    System.out.println("B");  
else  
    System.out.println("C");
```

- a) A
- b) B
- c) C
- d) A and B

9.

What is the result of the following code?

java

```
int num = 15;
if (num > 10)
    if (num < 20)
        System.out.println("A");
    else
        System.out.println("B");
```

- a) A
- b) B
- c) A and B
- d) No output