

MCQs on if and if-else in Java

1. What will happen if the condition in an `if` statement evaluates to `false` and there is no `else` part?
 - a) The next statement is skipped
 - b) Compilation error
 - c) The `if` block is skipped
 - d) The program stops
2. Which of the following is the correct syntax of an `if` statement in Java?
 - a) `if condition { }`
 - b) `if (condition) { }`
 - c) `if [condition] { }`
 - d) `if {condition}`
3. Which data type is required for the condition in an `if` statement?
 - a) `int`
 - b) `float`
 - c) `boolean`
 - d) `char`
4. What will be the output if the condition in an `if` block is `true` ?
 - a) It executes the block
 - b) It skips the block
 - c) Error
 - d) Jumps to else
5. In the following code, what will be executed?

```
int x = 10;
if (x > 5)
    System.out.println("Greater than 5");
else
    System.out.println("Less than or equal to 5");
```

- a) Greater than 5
- b) Less than or equal to 5
- c) Nothing
- d) Error

6. Which of the following keywords is optional in `if-else` statement?
 - a) `if`

b) else

c) condition

d) None

7. Can we use multiple `if` statements without using `else` ?

a) Yes

b) No

c) Only in loops

d) Only with switch

8. What will the following code print?

```
int a = 3;
if (a < 5)
    System.out.println("Small");
System.out.println("Done");
```

a) Small

b) Done

c) Small Done

d) Error

9. In an `if-else` structure, how many `else` blocks can be associated with a single `if` ?

a) 0

b) 1

c) 2

d) Unlimited

10. What is the result of the following code?

```
int num = 20;
if (num % 2 == 0)
    System.out.println("Even");
else
    System.out.println("Odd");
```

a) Even

b) Odd

c) Error

d) None

11. Choose the correct way to compare two integers `a` and `b` in an if condition.

- a) if (`a = b`)
- b) if (`a == b`)
- c) if (`a === b`)
- d) if (`a equal b`)

12. Which of the following can be a condition in an `if` statement?

- a) 5
- b) "text"
- c) true
- d) 3.14

13. What will the following code display?

```
int age = 17;
if (age >= 18)
    System.out.println("Adult");
else
    System.out.println("Minor");
```

- a) Adult
- b) Minor
- c) Error
- d) Nothing

14. What happens if there is no semicolon after the `if` block?

- a) Compilation error
- b) Runs normally
- c) Executes infinitely
- d) Skips block

15. How many statements can be inside an `if` block?

- a) Only one
- b) Only two
- c) Unlimited
- d) Zero only

16. Which keyword is used to check an alternative condition when `if` fails?

- a) else
- b) for
- c) switch
- d) break

17. In Java, which of the following symbols are used for condition checking?

- a) ++
- b) ==
- c) :=
- d) **

18. If you write an `if` condition without braces `{}` , how many statements will be executed conditionally?

- a) None
- b) Only the next one
- c) All statements
- d) Two

19. Choose the valid `if` condition from the following:

- a) `if (x + y = z)`
- b) `if (x + y > z)`
- c) `if (x + y)`
- d) `if (int x)`

20. What does this code print?

```
int num = 0;
if (num)
    System.out.println("Zero");
```

- a) Zero
- b) Nothing
- c) Compilation error
- d) Runtime error

21. The following code will:

```
if (false)
    System.out.println("True");
else
    System.out.println("False");
```

- a) Print True
- b) Print False
- c) Nothing
- d) Error

22. What is the output?

```
int x = 10;  
if (x != 10)  
    System.out.println("Not 10");  
else  
    System.out.println("Ten");
```

- a) Not 10
- b) Ten**
- c) Error
- d) None

23. Which of the following best describes an if block?

- a) Loop
- b) Function
- c) Condition checker**
- d) Compiler directive

24. What is the role of {} in if statements?

- a) Mandatory for every if
- b) Groups multiple statements**
- c) Acts as comment
- d) Adds delay

25. What will happen here?

```
int x = 5;  
if (x > 0)  
    System.out.println("Positive");  
    System.out.println("Checked");
```

- a) Only Positive
- b) Only Checked
- c) Positive Checked**
- d) Compilation error

26. Can if statements be nested?

- a) Yes**
- b) No

c) Only with loops

d) Only in methods

27. What does the `else` block execute?

a) If `if` condition is true

b) If `if` condition is false

c) Always

d) Never

28. Choose the correct structure:

a) if condition do this else do that

b) if {condition} then {} else {}

c) if (condition) { } else { }

d) if condition: else:

29. Which operator is often used in `if` statements?

a) +

b) ==

c) new

d) . (dot)

30. Can you write an `if` statement inside another `if` ?

a) No

b) Yes

c) Only in switch

d) Only in constructors