

Java Multiple Choice Questions

Topics: Basic Syntax, Data Types, Conditionals, Arrays, Loops, Variables & Scopes, Type Casting, Strings & Methods, Math Operations

1. Which keyword is used to define a class in Java?
 - A. class
 - B. Class
 - C. define
 - D. struct
2. Which method is the entry point of a Java program?
 - A. start()
 - B. run()
 - C. main()
 - D. init()
3. Which symbol is used to end a statement in Java?
 - A. .
 - B. ,
 - C. ;
 - D. :
4. What is the correct way to write a single-line comment in Java?
 - A. # comment
 - B. // comment
 - C. /* comment */
 - D. \comment
5. Which of the following is a valid Java identifier?
 - A. 1variable
 - B. _count
 - C. @value
 - D. int
6. Which of the following is NOT a primitive data type in Java?
 - A. int
 - B. double
 - C. String
 - D. boolean

7. What is the default value of a boolean variable in Java?
- A. true
 - B. false
 - C. 0
 - D. null
8. Which data type is used to store a single 16-bit Unicode character?
- A. char
 - B. String
 - C. int
 - D. byte
9. Which of the following can store the largest value?
- A. int
 - B. long
 - C. byte
 - D. short
10. What is the size of a float in Java?
- A. 32 bits
 - B. 64 bits
 - C. 16 bits
 - D. 128 bits
11. Which of the following is the correct syntax of an if statement?
- A. if condition
 - B. if (condition)
 - C. if [condition]
 - D. if {condition}
12. Which operator is used for equality comparison in Java?
- A. =
 - B. ==
 - C. :=
 - D. equals
13. The switch statement can be applied on:
- A. int, char, String

- B. float, double
 - C. boolean only
 - D. All types
14. Which keyword is used to exit from a switch block?
- A. stop
 - B. return
 - C. break
 - D. exit
15. What will be the output of:
- ```
int x = 5;
if (x > 2)
 System.out.print("A");
else
 System.out.print("B");
```
- A. A
  - B. B
  - C. AB
  - D. No output
16. What is the correct way to declare an array in Java?
- A. int arr[];
  - B. int[] arr;
  - C. int arr[10];
  - D. Both A and B
17. What is the index of the first element in a Java array?
- A. 0
  - B. 1
  - C. -1
  - D. Depends on JVM
18. How do you find the length of an array in Java?
- A. arr.size()
  - B. arr.length
  - C. arr.length()
  - D. arr.getLength()

19. What happens if you access an array with an invalid index?

- A. NullPointerException
- B. ArrayIndexOutOfBoundsException
- C. Compile-time error
- D. No error

20. What is the default value of an int array element?

- A. 0
- B. null
- C. garbage
- D. undefined

21. Which loop is guaranteed to execute at least once?

- A. for
- B. while
- C. do-while
- D. enhanced-for

22. What is the output of:

```
for (int i=0; i<3; i++) {
 System.out.print(i);
}
```

- A. 012
- B. 123
- C. 0 1 2
- D. 3

23. Which keyword is used to skip an iteration in a loop?

- A. exit
- B. break
- C. continue
- D. stop

24. Which loop is best suited for iterating over arrays?

- A. for-each
- B. while
- C. do-while

- D. nested for
25. Which of the following is infinite?
- A. for(;;)
  - B. while(true)
  - C. do while(true);
  - D. All of the above
26. What is the scope of a variable declared inside a method?
- A. Class-level
  - B. Package-level
  - C. Method-level
  - D. Global
27. What keyword is used to define a constant in Java?
- A. final
  - B. const
  - C. static
  - D. immutable
28. Which of the following can be accessed without creating an object?
- A. static variable
  - B. instance variable
  - C. local variable
  - D. constructor
29. Which type of variable is shared among all objects of a class?
- A. instance variable
  - B. static variable
  - C. local variable
  - D. global variable
30. What is the default value of an uninitialized local variable?
- A. 0
  - B. null
  - C. false
  - D. Compilation error
31. What is type casting in Java?

- A. Converting one data type into another
  - B. Defining a new class
  - C. Encapsulation
  - D. None of these
32. Which method is used to find string length?
- A. length
  - B. size()
  - C. length()
  - D. getLength()
33. Which of the following is immutable in Java?
- A. String
  - B. StringBuilder
  - C. StringBuffer
  - D. ArrayList
34. Which keyword is used to define a method that does not return anything?
- A. void
  - B. empty
  - C. null
  - D. None
35. Which of the following is a correct method declaration?
- A. public void myMethod()
  - B. void myMethod[]
  - C. method myMethod()
  - D. func myMethod()
36. What is the output of: `10 % 3`
- A. 1
  - B. 3
  - C. 0
  - D. 10
37. Which operator is used for exponentiation in Java?
- A. \*\*
  - B. Math.pow()

C. `exp()`

38. What is the result of `5/2` in Java (int division)?

A. 2.5

B. 3

C. 2

D. Error

39. Which class provides mathematical functions like `sqrt()` and `abs()`?

A. `Math`

B. `Integer`

C. `Numbers`

D. `Utility`

40. What will `Math.max(3,7)` return?

A. 3

B. 7

C. 10

D. Error

## Answer Key

1. class
2. main()
3. ;
4. // comment
5. \_count
6. String
7. false
8. char
9. long
10. 32 bits
11. if (condition)
12. ==
13. int, char, String
14. break
15. A
16. Both A and B
17. 0
18. arr.length
19. ArrayIndexOutOfBoundsException
20. 0
21. do-while
22. 012
23. continue
24. for-each
25. All of the above
26. Method-level
27. final
28. static variable
29. static variable
30. Compilation error
31. Converting one data type into another
32. length()
33. String
34. void
35. public void myMethod()
36. 1
37. Math.pow()
38. 2
39. Math
40. 7