MCQ practice questions. Answers below.

a **1. What does the keyword `this` refer to in Java?**

- a) Current object
- b) Superclass
- c) Parent class
- d) None of the above

b **2. True/False: In Java, a class can inherit multiple classes.**

- a) True
- b) False

a **3. Which of the following is the correct way to declare an array in Java?**

- a) `int arr[] = new int[10];`
- b) `int arr() = new int[10];`
- c) `arr{10};`
- d) `Array int arr[10];`

b **4. What is the output of `10 / 3` in Java?**

- a) 3.33
- b) 3
- c) 3.0
- d) Compile-time error

b *a* **5. What is the range of `byte` data type in Java?**

- a) -128 to 127
- b) 0 to 255
- c) -32768 to 32767
- d) -2147483648 to 2147483647

a **6. Which of these keywords is used to define an abstract class in Java?**

- a) `abstract`
- b) `interface`
- c) `class`
- d) `void`

C **7. Which of the following loops is guaranteed to execute at least once?**

- a) `for`
- b) `while`
- c) `do-while`
- d) None of the above

a 8. What is the correct syntax for the `main` method in Java?

- a) `public static void main(String args[])`
- b) `public void main(String args[])` ✗
- c) `static void main(String args[])` ✗
- d) `void main(String args[])` ✗

b 9. True/False: Strings in Java are mutable.

- a) True
- b) False

b 10. Which of these exceptions is thrown when a divide-by-zero occurs in Java for integer division?

- a) `NullPointerException`
- b) `ArithmeticException`
- c) `ArrayIndexOutOfBoundsException`
- d) `ClassCastException`

a 11. In Java, `++i` is known as the:

- a) Prefix increment
- b) Suffix increment
- c) Postfix increment
- d) None of the above

i++ is postfix

b 12. What is `StringBuffer` used for in Java?

- a) Immutable string operations
- b) Mutable string operations
- c) Array manipulation
- d) None of the above

a 13. What is the size of an `int` in Java?

- a) 8 bits
- b) 16 bits
- c) 32 bits
- d) 64 bits

String + int

a b 14. True/False: Java supports operator overloading.

- a) True
- b) False

a 15. Which method is called when an object is garbage collected?

- a) `finalize()`
- b) `destroy()`
- c) `dispose()`
- d) `close()`

b **16. True/False: An interface can have a constructor.**

- a) True
- b) False

C **17. What will `System.out.println("Hello" + 10 + 20);` print?**

- a) `Hello30`
- b) `1020Hello`
- c) `Hello1020`
- d) Compile-time error

b **18. What is the output of `System.out.println(10 + 20 + "Hello");`?**

- a) `1020Hello`
- b) `30Hello`
- c) `Hello30`
- d) Compile-time error

Can use { binary, true false

a **19. Which operator is used for bitwise AND in Java?**

- a) `&`
- b) `&&` — logic
- c) `|`
- d) `||`

a **20. True/False: An abstract class can have both abstract and non-abstract methods.**

- a) True
- b) False

C **21. Which of these data types has the highest precision in Java?**

- a) `int`
- b) `float`
- c) `double`
- d) `long`

b **22. What keyword is used to inherit a class in Java?**

- a) `inherits`
- b) `extends`

- c) `implements`
- d) `inherits_from`

23. What will `System.out.println(10 == 10.0);` output? *a*

- a) `true`
- b) `false`
- c) Compile-time error
- d) None of the above

24. Which class is a parent of the `String` class in Java?

- a) `Object`
- b) `StringBuffer`
- c) `StringBuilder`
- d) `None of the above`

25. Which of these is not a valid Java access modifier?

- a) `public`
- b) `protected`
- c) `private`
- d) `package`

26. True/False: `==` operator compares the references in Java for objects.

- a) True
- b) False

27. True/False: Java automatically handles memory management through Garbage Collection.

- a) True
- b) False

28. Which package is automatically imported in every Java program?

- a) `java.lang`
- b) `java.util`
- c) `java.io`
- d) `java.math`

29. True/False: Java arrays are always dynamically allocated.

- a) True
- b) False

b

30. What is the default value of a boolean variable in Java?

- a) `true`
- b) `false`
- c) `null`
- d) `0`

? a.

31. What will `System.out.println(5 >> 1);` output?

shift 1 position right for binary 5

0101 → 0010

- a) 2
- b) 5
- c) 10
- d) None of the above

C

32. Which of the following keywords is used to define a constant in Java?

- a) `constant`
- b) `const`
- c) `final`
- d) `static`

C

33. Which collection class is used to store elements in key-value pairs in Java?

- a) `ArrayList`
- b) `HashSet`
- c) `HashMap`
- d) `LinkedList`

C
d

34. Which of the following is not a Java feature?

- a) Platform Independent
- b) Object-Oriented
- c) Use of pointers
- d) Dynamic

a ?

35. True/False: `switch` statements can operate on Strings in Java.

- a) True
- b) False

a
b

36. What will `System.out.println('A' + 'B');` print?

- a) `AB`
- b) `131`
- c) `65`
- d) `66`

a

37. What is used to find the length of a string in Java?

- a) `length()`
- b) `size()`
- c) `getSize()`
- d) `len()`

b

38. True/False: All exceptions in Java are unchecked exceptions.

- a) True
- b) False

a

39. Which of these statements is used to end a loop in Java?

- a) `break`
- b) `stop`
- c) `exit`
- d) `terminate`

a

40. What is the use of `final` keyword in Java?

- a) It's used to define a variable that cannot be changed.
- b) It's used to define an unextendable class.
- c) It's used to prevent method overriding.
- d) All of the above

b

41. True/False: You can override a static method in Java.

- a) True
- b) False

a

42. What does the `super` keyword represent?

- a) Parent class object
- b) Static class
- c) Subclass object
- d) None of the above

a

43. What will `System.out.println(Math.min(3,7));` output?

- a) 3
- b) 7
- c) 5
- d) None of the above

d

44. What is the default access modifier in Java if none is specified?

- a) `private`

- b) `public`
- c) `protected`
- d) Package-private

45. Which data type can hold the largest integer value?

- a) `int`
- b) `long`
- c) `byte`
- d) `short`

56. True/False: Java supports multiple inheritance through classes.

- a) True
- b) False

47. Which method would stop the thread in Java?

- a) `stop()`
- b) `terminate()`
- c) `kill()`
- d) `destroy()`

48. What will `System.out.println("abc".charAt(1));` print?

- a) `a`
- b) `b`
- c) `c`
- d) `Compile-time error`

49. Which of the following statements creates a string in Java?

- a) `String s = "Hello";`
- b) `String s = new String("Hello");`
- c) Both a and b
- d) None of the above

50. True/False: The `final` keyword in Java is used only for variables.

- a) True
- b) False

ANSWERS

1. **a)** Current object
2. **b)** False
3. **a)** `int arr[] = new int[10];`
4. **b)** 3
5. **a)** -128 to 127
6. **a)** `abstract`
7. **c)** `do-while`
8. **a)** `public static void main(String args[])`
9. **b)** False
10. **b)** `ArithmeticException`
11. **a)** Prefix increment
12. **b)** Mutable string operations
13. **c)** 32 bits
14. **b)** False
15. **a)** `finalize()`
16. **b)** False
17. **c)** `Hello1020`
18. **b)** `30Hello`
19. **a)** `&`
20. **a)** True
21. **c)** `double`
22. **b)** `extends`
23. **a)** `true`
24. **a)** `Object`
25. **d)** `package`
26. **a)** True
27. **a)** True
28. **a)** `java.lang`
29. **a)** True
30. **b)** false
31. **a)** 2
32. **c)** `final`
33. **c)** `HashMap`
34. **c)** Use of pointers
35. **a)** True
36. **b)** 131
37. **a)** `length()`

38. **b)** False
39. **a)** `break`
40. **d)** All of the above
41. **b)** False
42. **a)** Parent class object
43. **a)** 3
44. **d)** Package-private
45. **b)** `long`
46. **b)** False
47. **a)** `stop()`
48. **b)** `b`
49. **c)** Both a and b
50. **b)** False