

Java questions

1. What is the default value of an int variable in Java?
 - a) 0
 - b) 1
 - c) Null
 - d) Undefined
2. Which of the following is NOT a Java keyword?
 - a) static
 - b) main
 - c) void
 - d) private
3. What will be the output of `System.out.println(10 + 20 + "Java");`?
 - a) 10Java20
 - b) Java1020
 - c) 30Java
 - d) Compilation Error
4. Which of these data types can store fractional numbers in Java?
 - a) int
 - b) float
 - c) boolean
 - d) char
5. What is the size of the char data type in Java?
 - a) 1 byte
 - b) 2 bytes
 - c) 4 bytes
 - d) 8 bytes
6. Which of the following is NOT a valid identifier in Java?
 - a) `_Java123`
 - b) `$variable`
 - c) `2javaVar`
 - d) `myVar`
7. What is the range of values for the byte data type in Java?
 - a) -128 to 127
 - b) 0 to 255
 - c) -32,768 to 32,767

d) -2^{31} to $2^{31} - 1$

8. Which of the following is used to read input in Java?

- a) Scanner
- b) InputStream
- c) BufferedReader
- d) All of the above

9. What does `System.out.println(Math.ceil(4.2));` return?

- a) 4.0
- b) 5.0
- c) 4.2
- d) Compilation Error

10. What is the correct way to declare a constant in Java?

- a) `final int MAX = 100;`
- b) `int final MAX = 100;`
- c) `constant int MAX = 100;`
- d) `MAX = 100;`

11. What is the output of `System.out.println(10/3);`?

- a) 3
- b) 3.33
- c) 3.0
- d) Compilation Error

12. Which operator is used for bitwise AND in Java?

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

13. What will be the output of:

```
int x = 5;
```

```
System.out.println(x++ + ++x);
```

- a) 10
- b) 11
- c) 12
- d) 13

14. Which statement is used to exit a loop in Java?

- a) return
- b) continue
- c) break
- d) exit

15. What will `System.out.println(5 == 5.0);` return?

- a) true
- b) false
- c) Compilation Error
- d) Runtime Exception

16. What is the output of the following Java statement?

```
System.out.println(10 > 5 ? "Java" : "Python");
```

- a) Java
- b) Python
- c) Compilation Error
- d) None of the above

17. How many times will the loop execute?

```
for(int i = 1; i <= 5; i++) { }
```

- a) 4
- b) 5
- c) 6
- d) Infinite

18. What is the output of `System.out.println(5 & 3);`?

- a) 1
- b) 3
- c) 5
- d) 7

19. The switch statement in Java works with:

- a) int, char
- b) String, enum
- c) Both a and b
- d) Only int

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

- a) 30
- b) 1020
- c) Compilation Error
- d) 20

21. Which keyword is used to create an object in Java?

- a) allocate
- b) new
- c) class
- d) object

22. Which of the following is NOT a feature of OOP?

- a) Encapsulation
- b) Polymorphism
- c) Compilation
- d) Inheritance

23. What is method overloading in Java?

- a) Methods with the same name but different return types
- b) Methods with the same name but different parameter lists
- c) Methods with different names but same return types
- d) None of the above

24. What is the default access modifier in Java?

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

25. Which of the following is used to achieve abstraction?

- a) Abstract class
- b) Interface
- c) Both a and b
- d) None

26. Which keyword is used to handle exceptions in Java?

- a) throw
- b) catch
- c) try
- d) Both b and c

27. What happens when an exception is not handled in Java?

- a) Compilation Error
- b) The program terminates
- c) The program runs normally
- d) None of the above

28. Which class is the parent of all exception classes?

- a) RuntimeException
- b) Throwable
- c) Exception
- d) Error

29. How do you create a thread in Java?

- a) Extend Thread class
- b) Implement Runnable interface
- c) Both a and b
- d) None

30. What is the default priority of a thread in Java?

- a) 1
- b) 5
- c) 10
- d) 0

31. Which collection allows storing key-value pairs in Java?

- a) List
- b) Set
- c) Map
- d) Queue

32. What is the size of an empty ArrayList?

- a) 0
- b) 1
- c) -1
- d) 10

33. Which interface provides a resizable array?

- a) List
- b) Set
- c) Map
- d) Queue

34. What is the time complexity of inserting an element in a HashMap?

- a) $O(1)$
- b) $O(\log n)$
- c) $O(n)$
- d) $O(n \log n)$

35. Which of the following is synchronized?

- a) HashMap
 - b) Hashtable
 - c) ArrayList
 - d) None
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Answer Key

- 1. **a**
- 2. **b**
- 3. **c**
- 4. **b**
- 5. **b**
- 6. **c**
- 7. **a**
- 8. **d**
- 9. **b**
- 10. **a**
- 11. **a**
- 12. **a**
- 13. **d**
- 14. **c**
- 15. **a**
- 16. **a**
- 17. **b**
- 18. **a**
- 19. **c**
- 20. **b**
- 21. **b**
- 22. **c**
- 23. **b**
- 24. **d**
- 25. **c**
- 26. **d**
- 27. **b**

- 28. **b**
- 29. **c**
- 30. **b**
- 31. **c**
- 32. **a**
- 33. **a**
- 34. **a**
- 35. **b**

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