

Java Interview Test Paper – Total time to solve: 1 hour.

1. What is the correct syntax to declare a method in Java?
 - a) method void myMethod() {}
 - b) void myMethod() {}
 - c) function myMethod() {}
 - d) def myMethod() {}

2. In Java, which keyword is used to implement multiple inheritance?
 - a) extends
 - b) implements
 - c) multiple
 - d) inheritance

3. What is the purpose of the 'finally' block in a try-catch-finally statement?
 - a) It is executed if an exception is caught.
 - b) It is always executed, regardless of whether an exception is caught or not.
 - c) It is executed only if no exception occurs.
 - d) It is used to define custom exceptions.

4. What is the correct way to create an object in Java?
 - a) new Object();
 - b) create Object();
 - c) Object.create();
 - d) Object.new();

5. What is the output of the following code?

```
int x = 10;  
System.out.println(x > 5 ? "Greater" : "Smaller");
```

 - a) Greater
 - b) Smaller
 - c) true
 - d) false

6. Which collection class is synchronized in Java?
 - a) ArrayList
 - b) LinkedList
 - c) HashMap
 - d) Vector

7. What does the static keyword indicate in Java?
 - a) It is used to declare a constant.
 - b) It is used to create an instance of a class.
 - c) It is used to define a class method.
 - d) It is used to indicate a variable that can be modified.

8. What is the correct way to declare an array in Java?

- a) array `int[] myArray;`
- b) `int myArray[];`
- c) `int[] myArray;`
- d) array `myArray[];`

9. In Java, which keyword is used to prevent a method from being overridden?

- a) `static`
- b) `final`
- c) `private`
- d) `abstract`

10. What is the output of the following code?

```
String str1 = "Java";  
String str2 = new String("Java");  
System.out.println(str1 == str2);
```

- a) `true`
- b) `false`
- c) Compile-time error
- d) Runtime error

11. What is the correct way to declare a variable in Java?

- a) `int x;`
- b) `x = 5;`
- c) `variable x;`
- d) `declare int x;`

12. What is the output of the following code?

```
int x = 5;  
System.out.println(x++);
```

- a) 5
- b) 6
- c) 4
- d) 7

13. What keyword is used to define a constant in Java?

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

14. Which of the following is not a primitive data type in Java?

- a) `int`
- b) `float`
- c) `char`
- d) `class`

15. What is the purpose of the 'this' keyword in Java?
- a) It refers to the current instance of the class.
 - b) It is used to create a new instance of a class.
 - c) It refers to the superclass of the current class.
 - d) It is used to refer to the parent class.
16. What does the 'super' keyword represent in Java?
- a) It refers to the superclass of the current class.
 - b) It is used to create a new instance of a class.
 - c) It refers to the current instance of the class.
 - d) It is used to refer to the child class.
17. What is the correct way to initialize an array in Java?
- a) `int arr[] = new int[5];`
 - b) `int arr[5] = {1, 2, 3, 4, 5};`
 - c) `int arr[] = {1, 2, 3, 4, 5};`
 - d) `int arr[5];`
18. What is the output of the following code?
- ```
String str = "Hello, World!";
System.out.println(str.length());
```
- a) 13
  - b) 12
  - c) 14
  - d) 11
19. In Java, which operator is used to concatenate two strings?
- a) &
  - b) &&
  - c) +
  - d) ||
20. What is the purpose of the 'break' statement in Java?
- a) It is used to exit a loop or switch statement.
  - b) It is used to skip the current iteration of a loop.
  - c) It is used to terminate the program.
  - d) It is used to jump to a specific line of code.
21. What is the main difference between ArrayList and LinkedList in Java?
- a) ArrayList is faster for insertion and deletion.
  - b) LinkedList is backed by an array, while ArrayList is backed by a linked list.
  - c) ArrayList is synchronized, while LinkedList is not.
  - d) LinkedList is faster for insertion and deletion.
22. In Java, which interface is implemented by all the collection classes?
- a) List

- b) Collection
- c) Set
- d) Map

23. What is the purpose of the HashMap class in Java?

- a) To store elements in a sorted order.
- b) To store key-value pairs.
- c) To store elements in a stack.
- d) To store elements in a queue.

24. How can you iterate through all elements of a List in Java?

- a) Using a for loop
- b) Using an enhanced for loop (for-each loop)
- c) Using an iterator
- d) All of the above

25. In Java, what is the purpose of the finally block in a try-catch-finally statement?

- a) It is executed only if an exception is caught.
- b) It is always executed, regardless of whether an exception is caught or not.
- c) It is used to define a custom exception.
- d) It is executed only if no exception occurs.

26. What is the difference between throw and throws in Java?

- a) throw is used to declare an exception, while throws is used to throw an exception.
- b) throw is used to throw an exception, while throws is used to declare an exception.
- c) They are used interchangeably.
- d) There is no difference between them.

27. Which of the following exceptions is a checked exception?

- a) NullPointerException
- b) ArithmeticException
- c) ArrayIndexOutOfBoundsException
- d) IOException

28. What is the purpose of the try-with-resources statement introduced in Java 7?

- a) To catch exceptions thrown in the try block.
- b) To automatically close resources such as files or sockets.
- c) To declare a custom exception.
- d) To handle runtime exceptions.

29. What is multi-threading?

- a) Running multiple programs simultaneously
- b) Executing multiple threads in a single process
- c) Running multiple processes in parallel
- d) Executing multiple classes concurrently

30. How do you create a thread in Java?

- a) Using the start() method
- b) Using the run() method
- c) By instantiating the Thread class
- d) By implementing the Runnable interface

31. What is the purpose of the join() method in Java?

- a) To synchronize threads
- b) To pause a thread's execution
- c) To terminate a thread
- d) To wait for a thread to finish

32. What is the output of the following Java code?

```
public class MyClass {
 public static void main(String[] args) {
 System.out.println("Hello, " + args[0] + "!!");
 }
}
```

- a) Hello, World!
- b) Hello, null!
- c) Compilation error
- d) ArrayIndexOutOfBoundsException

33. What is the purpose of the break statement in a loop?

- a) To exit the loop
- b) To skip the current iteration and move to the next one
- c) To terminate the program
- d) To return a value from the loop

34. In Java, can a subclass access private members (fields or methods) of its superclass?

- a) Yes
- b) No
- c) Only if they are static
- d) Only if they are declared as protected

35. What is the keyword used for inheritance in Java?

- a) extends
- b) implements

- c) inherits
- d) uses

36. What is abstraction in Java?

- a) Hiding implementation details and showing only essential features
- b) Creating objects from a class
- c) Using abstract classes only
- d) Implementing interfaces

37. Which keyword is used to declare an abstract class in Java?

- a) abstract
- b) class
- c) interface
- d) abstractClass

38. Can an abstract class have non-abstract methods?

- a) Yes
- b) No
- c) Only if the class is final
- d) Only if the class is private

39. Which data structure allows elements to be stored in a contiguous memory location?

- A) ArrayList
- B) LinkedList
- C) HashSet
- D) HashMap

40. Which interface in Java provides support for iterating over the elements of a collection in both forward and backward directions?

- A) Iterable
- B) Collection
- C) List
- D) BidirectionalIterable

**41. What is the primary difference between a HashSet and a HashMap?**

- A) HashSet stores key-value pairs, while HashMap stores elements.
- B) HashSet allows duplicate elements, while HashMap does not.
- C) HashSet does not maintain any order, while HashMap maintains key-value associations.
- D) HashSet provides faster access to elements than HashMap.

**42. What happens if the “remove ()” method of an Iterator is called without a preceding call to “next ()”?**

- A) The previous element is removed.
- B) An exception is thrown.
- C) The next element is removed.
- D) The Iterator is reset to the beginning

**43. Write a Java program to get the value of a specified key in a map?**

**Answer:**

```
import java.util.*;

public class Example {

 public static void main(String args[]){

 HashMap<Integer,String> hash_map= new HashMap<Integer,String>();

 hash_map.put(1,"Red");
 hash_map.put(2,"Green");
 hash_map.put(3,"Black");
 hash_map.put(4,"White");
 hash_map.put(5,"Blue");

 // get value of key 3
 String val=(String)hash_map.get(3);

 // check the value
```

```
System.out.println("Value for key 3 is: " + val);
```

```
}
```

```
}
```