

Java Basics – 50 MCQs with Answers

1. What is the entry point of a Java program?

- A) class main()
- B) public void main(String[] args)
- C) public static void main(String[] args)
- D) main() method inside any class

Answer – C) public static void main(String[] args)

2. Why is the main() method static in Java?

- A) To allow JVM to call it without creating an object
- B) Because all methods in Java must be static
- C) To save memory
- D) To allow multiple classes to run simultaneously

Answer – A) To allow JVM to call it without creating an object

3. Which of the following correctly represents the order?

- A) JVM > JRE > JDK
- B) JDK > JRE > JVM
- C) JRE > JVM > JDK
- D) JDK > JVM > JRE

Answer – B) JDK > JRE > JVM

4. Which component converts Java code into bytecode?

- A) JVM
- B) JRE
- C) javac compiler
- D) JDK

Answer – C) javac compiler

5. Which of the following is NOT true about variables?

- A) Local variables don't have default values
- B) Instance variables are unique to each object
- C) Static variables are shared by all objects
- D) Local variables are stored in the heap

Answer – D) Local variables are stored in the heap

6. Can a local variable have a default value in Java?

- A) Yes
- B) No
- C) Only for int
- D) Only for boolean

Answer – B) No

7. Which of the following is a primitive data type?

- A) String
- B) Array
- C) int
- D) Object

Answer – C) int

8. Why is char 2 bytes in Java?

- A) To support ASCII
- B) To support Unicode characters
- C) To support binary values
- D) To save memory

Answer – B) To support Unicode characters

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

- A) true
- B) false
- C) 0
- D) null

Answer – B) false

10. Which operator is used for comparing object references in Java?

- A) .equals()
- B) ==
- C) compare()
- D) compareTo()

Answer – B) ==

11. Which operator is used to compare contents of objects (like Strings)?

- A) ==
- B) equals()
- C) compareTo()
- D) equalsIgnoreCase()

Answer – B) equals()

12. What will be the output of this code?

```
String s1 = new String("Java");
String s2 = new String("Java");
System.out.println(s1 == s2);
```

- A) true
- B) false
- C) null
- D) Error

Answer – B) false

13. What will be the output of this code?

```
String s1 = "Java";
String s2 = "Java";
System.out.println(s1 == s2);
```

- A) true
- B) false
- C) null
- D) Error

Answer – A) true

14. Which loop guarantees at least one execution?

- A) for loop
- B) while loop
- C) do-while loop
- D) enhanced for loop

Answer – C) do-while loop

15. Which keyword is used to define a block of multiple options in Java?

- A) if
- B) else-if
- C) switch
- D) case

Answer – C) switch

16. Which operator is called the ternary operator in Java?

- A) &&
- B) ?:
- C) ++
- D) ==

Answer – B) ?:

17. Which of these is a relational operator?

- A) +
- B) ==
- C) &&
- D) =

Answer – B) ==

18. What is the size of an int in Java?

- A) 2 bytes
- B) 4 bytes
- C) 8 bytes
- D) Depends on OS

Answer – B) 4 bytes

19. Which of these control structures is best suited when the number of iterations is known?

- A) while
- B) do-while
- C) for
- D) if-else

Answer – C) for

20. What will be the output?

```
int a = 10;  
int b = 20;  
System.out.println(a > b ? a : b);
```

- A) 10
- B) 20
- C) true
- D) false

Answer – B) 20

21. Which of these is not a valid identifier in Java?

- A) myVar
- B) _count
- C) 123abc
- D) \$price

Answer – C) 123abc

22. Which keyword is used to define constants in Java?

- A) const
- B) final
- C) static
- D) constant

Answer – B) final

23. Which of these is not a primitive type in Java?

- A) long
- B) boolean

- C) String
- D) char

Answer – C) String

24. Which access modifier makes a variable accessible only within the same class?

- A) public
- B) protected
- C) private
- D) default

Answer – C) private

25. What is the default value of a reference variable in Java?

- A) 0
- B) null
- C) undefined
- D) empty string

Answer – B) null

26. Which of the following statements about JVM is correct?

- A) JVM is platform-independent
- B) JVM is platform-dependent
- C) JVM compiles source code
- D) JVM is part of JDK only

Answer – B) JVM is platform-dependent

27. Which of these can be overloaded in Java?

- A) Constructors only
- B) Methods only
- C) Both methods and constructors
- D) main() method only

Answer – C) Both methods and constructors

28. Which of the following cannot be used as a variable name in Java?

- A) class
- B) var

- C) my_var
- D) _name

Answer – A) class

29. Which operator is used for short-circuit AND in Java?

- A) &
- B) &&
- C) |
- D) ||

Answer – B) &&

30. What will be the output?

```
int x = 5;
```

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

- A) 10
- B) 11
- C) 12
- D) 13

Answer – D) 13

31. What is the size of double in Java?

- A) 4 bytes
- B) 8 bytes
- C) 16 bytes
- D) Depends on OS

Answer – B) 8 bytes

32. Which keyword is used to exit a loop immediately?

- A) return
- B) continue
- C) break
- D) exit

Answer – C) break

33. Which keyword skips the current iteration and continues with the next?

- A) exit
- B) skip

- C) continue
- D) break

Answer – C) continue

34. Which of these cannot be declared as static?

- A) Variable
- B) Method
- C) Constructor
- D) Block

Answer – C) Constructor

35. Which type of memory is used to store instance variables?

- A) Stack
- B) Heap
- C) Method Area
- D) Register

Answer – B) Heap

36. Where are local variables stored in Java?

- A) Heap
- B) Method Area
- C) Stack
- D) Permanent Generation

Answer – C) Stack

37. What is the default value of an uninitialized int instance variable?

- A) null
- B) 0
- C) garbage value
- D) undefined

Answer – B) 0

38. What will be the output?

```
int a = 10;
```

```
int b = 20;
```

```
int c = (a > b) ? a : b;
```

```
System.out.println(c);
```

- A) 10
- B) 20
- C) 30
- D) Error

Answer – B) 20

39. Which of these is NOT a valid loop in Java?

- A) for
- B) foreach
- C) while
- D) do-while

Answer – B) foreach (Java uses enhanced for loop, not "foreach" keyword)

40. Which operator is used for object creation in Java?

- A) malloc
- B) new
- C) create
- D) alloc

Answer – B) new

41. Which symbol is used for single-line comments in Java?

- A) //
- B) /*
- C) <!--
- D) #

Answer – A) //

42. Which symbol is used for multi-line comments in Java?

- A) //
- B) /* ... */
- C) <!-- ... -->
- D) ## ... ##

Answer – B) /* ... */

43. Which method is used to print output in Java?

- A) print()
- B) println()

- c) System.print()
- d) display()

Answer – B) println()

44. What will be the output?

System.out.println(10 + 20 + "Java");

- a) Java30
- b) 30Java
- c) 1020Java
- d) Compilation error

Answer – B) 30Java

45. What will be the output?

System.out.println("Java" + 10 + 20);

- a) Java30
- b) 30Java
- c) Java1020
- d) Compilation error

Answer – C) Java1020

46. Which keyword is used to create a subclass in Java?

- A) super
- B) extends
- C) implements
- D) inherits

Answer – B) extends

47. Which of these is NOT a valid data type modifier in Java?

- A) signed
- B) final
- C) abstract
- D) transient

Answer – A) signed

48. Which statement about Java is true?

- A) Java supports multiple inheritance with classes
- B) Java supports multiple inheritance with interfaces

- C) Java does not support inheritance at all
- D) Java allows operator overloading

Answer – B) Java supports multiple inheritance with interfaces

49. Which keyword is used to inherit from an interface in Java?

- A) extends
- B) implements
- C) inherit
- D) super

Answer – B) implements

50. Which method is called when an object is created in Java?

- A) init()
- B) constructor
- C) start()
- D) new()

Answer – B) constructor

