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# Frequently Asked Questions in Java Programming:

- 1. Where is the Java compiler located?
  - a. Inside the JDK
  - b. Inside the JVM
  - c. Outside the JDK
  - d. Inside the

# Ans: a. Inside the JDK

- 2. Where is the Java Interpreter?
  - a. Inside the JDK
  - b. Inside the JVM
  - c. Outside the JDK
  - d. Inside the JRE

Ans: b. Inside the JVM

- 3. What is the output of the Java Compiler?
  - a. Target Machine Code
  - b. Source Code
  - c. Bytecode
  - d. Documentation

Ans: c. Bytecode



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- 4. What are the two ways to achieve abstraction?
  - a. Abstract Class & Interface
  - b. Single & Multiple inheritance
  - c. Abstract Method & Concrete Method
  - d. Encapsulation & Abstraction

# Ans: a. Abstract Class & Interface

- 5. What is wrapping the code and data together as one unit in Java is called?
  - a. Encapsulation
  - b. Polymorphism
  - c. Overloading
  - d. Overriding

# Ans: a. Encapsulation

- 6. Which of the following types of inheritance is not allowed in Java?
  - a. Single
  - b. Multilevel
  - c. Hierarchical
  - d. Multiple

# Ans: d. Multiple



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- 7. What are the two types of polymorphism?
  - a. System & User
  - b. Compile time & Run time
  - c. Built-in & User Defined
  - d. Global & Local

### Ans: b. Compile time & Run time

- 8. What is the other name for static polymorphism?
  - a. Compile time polymorphism
  - b. System polymorphism
  - c. Abstraction
  - d. Encapsulation

### Ans: a. Compile time polymorphism

- 9. What is the other name for dynamic polymorphism?
  - a. Runtime polymorphism
  - b. Association
  - c. Composition
  - d. Object Instantiation

### Ans: a. Runtime polymorphism



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### 10. Where are local variables declared?

- a. Inside a method
- b. Inside the class and outside the method
- c. Outside the method
- d. Outside the main method

### Ans: a. Inside a method

### 11. What is the scope of a local variable?

- a. Throughout the class
- b. Throughout the method
- c. Inside the class
- d. Inside the constructor

# Ans: b. Throughout the method

### 12. Where is the instance variable declared?

- a. Inside the method
- b. Inside the class
- c. In the global area
- d. No need to declare

### Ans: b. Inside the class



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### 13. What is the scope of an instance variable?

- a. Only within the constructor
- b. Only within the method
- c. Throughout the class
- d. Throughout the main

### Ans: c. Throughout the class

#### 14. What is the default value of the local variable?

- a. No default value
- b. 0
- c. false
- d. null

### Ans: a. No default value

15. What type of method can be called without an instance of the class?

- a. Instance method
- b. Constructor
- c. Static method
- d. Private method

Ans: c. Static method



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# 16. What method can change the value of a static variable?

- a. Instance method
- b. Constructor
- c. Private method
- d. Static method

# Ans: d. Static method

### 17. What is executed before the main() method?

- a. Constructor
- b. Static block
- c. Static method
- d. Abstract class

# Ans: b. Static block

### 18. What is a static block used for?

- a. To initialize local variables
- b. To initialize instance members
- c. To initialize the class loader
- d. To initialize static members

# Ans: d. To initialize static members

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- 19. What type of binding determines the type of an object during compile time?
  - a. Dynamic Binding
  - b. Static Binding
  - c. Late Binding
  - d. Runtime Binding

### **Ans: b. Static Binding**

### 20. What type of binding determines the type of an object during run time?

- a. Early Binding
- b. Static Binding
- c. Compile time Binding
- d. Dynamic binding

# Ans: d. Dynamic Binding

### 21. Which package is automatically imported by the JVM?

- a. java. lang
- b. java. util
- c. java.net
- d. java.io

### Ans:a. java. lang



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### 22. Can an abstract class be instantiated?

- a. Possible with single inheritance
- b. Yes Possible
- c. Not possible
- d. Depending on the compiler

#### Ans: c. Not possible

#### 23. How can multiple inheritances be achieved in Java?

- a. Using class extension
- b. Using interfaces
- c. Using abstract classes
- d. No possible in Java

### Ans: b. Using Interfaces

24. What is a group of similar types of classes, interfaces and sub-packages called?

- a. Package
- b. Name space
- c. Interface
- d. Nested Classes

### Ans: a. Package



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### 25. Which class is the superclass of every class?

- a. IO class
- b. Object class
- c. Root Class
- d. Super Class

### Ans: b. Object class

#### 26. Who carries out garbage collection?

- a. Programmer
- b. Compiler
- c. Memory management in JVM
- d. Interpreter

### Ans: c. Memory management in JVM

27. Where is/are a break used?

- a. Only in methods
- b. Only in constructors
- c. Loops and switch statements
- d. Only in class definitions

### Ans: c. Loops and switch statements

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#### 28. What statement is used to take the control out of the loop?

- a. break
- b. return
- c. exit
- d. goto

#### Ans: a. break

29. What statement is used to take the control back to the top of the loop?

- a. return
- b. reset
- c. Continue
- d. Goto

#### Ans: c. Continue

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

- a. Package
- b. main ()
- c. Class
- d. Import

### Ans: b. main ()



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### 31. Can a main () method be overloaded?

- a. Compiler Flags Error
- b. Yes
- c. No
- d. When it is not declared as static

#### Ans: b. Yes

32. Which keyword is used to declare a variable as constant?

- a. final
- b. const
- c. constant
- d. static

### Ans: a. final

33. Choose the true statement:

- a. final variable cannot be changed
- b. final method cannot be overridden
- c. final class cannot be inherited
- d. All the above

#### Ans: d. All the above

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### 34. Which of the following types of inheritance is not supported in Java?

- a. Single
- b. Multiple
- c. Multilevel
- d. Hierarchical

### Ans: b. Multiple

35. What is the main difference between String and StringBuilder?

- a. String is mutable, and StringBuilder is immutable
- b. String is immutable, and StringBuilder is mutable
- c. Both String and StringBuilder are immutable
- d. Both String and StringBuilder are mutable

# Ans: b. String is immutable, and StringBuilder is mutable

36. Which is the least restrictive access modifier?

- a. public
- b. private
- c. protected
- d. default

### Ans: a. public



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### 37. Which is the most restrictive access modifier?

- a. private
- b. public
- c. protected
- d. default

### Ans: a. private

38. Which loop gets executed at least once even if the condition fails?

- a. While
- b. do while
- c. for
- d. enhanced for

### Ans: b. do while

39. Which variable in java is associated with the class rather than the instance of the

class?

- a. Static
- b. Instance
- c. Local
- d. Both B and C

### Ans: a. Static



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### 40. When is a constructor invoked or called?

- a. When a private class is extended
- b. When a new object is created
- c. When a new class is loaded
- d. When the class is compiled

### Ans: b. When a new object is created

#### 41. Can the main method return any value?

- a. Only boolean values can be returned
- b. If there is a return statement
- c. No
- d. Yes

### Ans: c. No

42. What is a mechanism to handle run time errors called?

- a. Error detection
- b. Debugging
- c. Exception handling
- d. Garbage collection

### Ans: c. Exception handling



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- 43. Which of the following are non-access modifiers?
  - a. static
  - b. final
  - c. abstract
  - d. All the above

### Ans: d. All the above

- 44. Which JVM memory area is responsible for storing objects during runtime?
  - a. Program Counter Register
  - b. Native Method Stack
  - c. Heap
  - d. Class (Method) Area

### Ans: c. Heap

### 45. In the JVM, which memory area holds local variables and partial results for method

execution?

- a. Stack
- b. Heap
- c. Program Counter Register
- d. Native Method Stack

### Ans: a. Stack



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### 46. What does the JIT compiler do in the JVM?

- a. Translates bytecode to machine code
- b. Stores objects
- c. Manages memory
- d. Handles method calls

# Ans: a. Translates bytecode to machine code

### 47. What is a platform?

- a. A type of computer hardware
- b. A tool for coding
- c. A data storage device
- d. The environment where software runs

# Ans: d. The environment where software runs

48. What is a key difference between the Java platform and other platforms?

- a. Java is software-based; other platforms can be hardware or software-based.
- b. Java is only hardware-based; other platforms are only software.
- c. Java is a data tool; other platforms are for coding.
- d. Java is used for storage; other platforms handle memory.

Ans: a. Java is software-based; other platforms can be hardware or software-based.



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### 49. What makes Java's "write once, run anywhere" feature possible?

- a. Bytecode
- b. Source code
- c. Machine code
- d. Java compiler

### Ans: a. Bytecode

### 50. What does a classloader do in Java?

- a. Loads class files into the JVM
- b. Compiles Java code
- c. Manages memory
- d. Handles data storage

# Ans: a. Loads class files into the JVM

- 51. Is an empty .java file name valid in Java?
  - a. Yes
  - b. No
  - c. Only if it has code
  - d. Only if named Main.java

### Ans: a. Yes



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### 52. Which of the following is not a Java keyword?

- a. delete
- b. import
- c. null
- d. static

#### Ans: a. delete

53. What converts the primitive data types into objects?

- a. Wrapper Class
- b. Auto-boxing
- c. Type Casting
- d. Object Serialization

### Ans: a. Wrapper Class

54. Can a program import a package more than once?

- a. Yes
- b. No
- c. Only in the same file
- d. Only in different classes

### Ans: a. Yes



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### 55. What is the default value of a local variable?

- a. 0
- b. Null
- c. False
- d. No default value

### Ans: d. No default value

#### 56. Does Java support global variables?

- a. Yes
- b. No
- c. Only in certain cases
- d. Only in static context

### Ans: b. No

- 57. What is used to initialize an object?
  - a. Method
  - b. Constructor
  - c. Initializer
  - d. Factory

### Ans: b. Constructor



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### 58. Can a class have multiple constructors?

- a. Yes
- b. No
- c. Only one
- d. Depends on the class

# Ans: a. Yes

### 59. Who creates the default constructor?

- a. Programmer
- b. Java compiler
- c. Java Virtual Machine
- d. Runtime Environment

# Ans: b. Java compiler

- 60. What is the return type of a constructor?
  - a. void
  - b. Constructor has no return type
  - c. int
  - d. Object

# Ans: b. Constructor has no return type



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- 61. What is the difference between null and an empty string in Java?
  - a. null no value and empty Is a string value with no characters.
  - b. null value with no characters and empty- not allowed in java.
  - c. Both are the same in Java.
  - d. null is for numbers and empty for text.

Ans: a. null - no value and empty - Is a string value with no characters.

- 62. Can a constructor be inherited?
  - a. Yes
  - b. No
  - c. Only protected constructors
  - d. Only in subclasses

# Ans: b. No

63. Can a constructor be made final?

- a. Yes
- b. No
- c. Only static constructors
- d. Only private constructors



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### 64. What does the 'this' keyword refer to?

- a. Parent object
- b. Previous object
- c. Static context
- d. Current object

### Ans: d. Current object

- 65. What is a method having more than one method with the same name called?
  - a. Method overriding
  - b. Method overloading
  - c. Method hiding
  - d. Method chaining

# Ans: b. Method overloading

- 66. What is a subclass providing an implementation for a method which is already implemented in the superclass called?
  - a. Method hiding
  - b. Method overriding
  - c. Method overloading
  - d. Method linking

# Ans: b. Method overriding



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- 67. Can we overload a static method?
  - a. Yes
  - b. No
  - c. Only in subclasses
  - d. Only in the same class

# Ans: a. Yes

### 68. What is special about the finally block?

- a. It is optional
- b. It is executed only on exceptions
- c. It is always executed
- d. It can be skipped

# Ans: c. It is always executed

- 69. What is the use of a finalize() method?
  - a. For performance optimization
  - b. For cleanup or housekeeping process
  - c. To create new objects
  - d. To release memory immediately

# Ans: b. For cleanup or housekeeping process

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- 70. If no command-line arguments are provided, what will be the value of the String array passed into the main() method?
  - a. Empty array
  - b. null
  - c. An array with one empty string
  - d. An array with null values

### Ans: a. Empty array

- 71. What is a thread?
  - a. Heavy process
  - b. Lightweight process
  - c. A type of file
  - d. A programming language

### Ans: b. Lightweight process

- 72. What is the difference in precision between float and double?
  - a. Float is single; double is double
  - b. Float is double; double is single
  - c. Both are the same
  - d. Float is triple; double is single

# Ans: a. Float is single; double is double



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### 73. Why doesn't main() return a value?

- a. It is void
- b. It returns an error
- c. It is optional
- d. It is a special method

### Ans: a. It is void

74. What is a constructor?

- a. A type of variable
- b. A special method for initializing objects
- c. A data structure
- d. A loop

# Ans: b. A special method for initializing objects

### 75. When is a constructor invoked?

- a. When an object is created
- b. When a class is defined
- c. During method execution
- d. At program termination

# Ans: a. When an object is created



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#### 76. What is the default constructor?

- a. A constructor with parameters
- b. A constructor that initializes no values
- c. A constructor that always returns a value
- d. A constructor that is private

### Ans: b. A constructor that initializes no values

#### 77. What is the return type of a constructor?

- a. int
- b. void
- c. Has no return type
- d. String

### Ans: c. Has no return type

#### 78. Can a constructor be inherited?

- a. Yes
- b. No
- c. Only in subclasses
- d. Only in interfaces



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### 79. Can a constructor be declared 'final'?

- a. Yes
- b. No
- c. Only in abstract classes
- d. Only in interfaces

# Ans: b. No

### 80. What does the 'this' keyword refer to?

- a. The parent class
- b. The current object
- c. The main method
- d. A static variable

# Ans: b. The current object

- 81. Can we override a static method?
  - a. Yes
  - b. No
  - c. Only in subclasses
  - d. Only if it's final



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### 82. Which modifiers can be used with a class?

- a. public and private
- b. public and final
- c. private and protected
- d. static and final

### Ans: b. public and final

#### 83. Can we declare a top-level class as protected?

- a. Yes
- b. No
- c. Only in packages
- d. Only if it's abstract

### Ans: b. No

- 84. Can we declare a class protected?
  - a. Yes
  - b. No
  - c. Only inner classes
  - d. Only in interface



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# 85. What type of parameter passing does Java support?

- a. Pass by reference
- b. Pass by value
- c. Pass by copy
- d. Pass by address

Ans: b. Pass by value