

50 MCQs

1. Who invented Java Programming?

- a) Guido van Rossum
- b) James Gosling
- c) Dennis Ritchie
- d) Bjarne Stroustrup

2. Which statement is true about Java?

- a) Java is a sequence-dependent programming language
- b) Java is a code dependent programming language
- c) Java is a platform-dependent programming language
- d) Java is a platform-independent programming language

3. Which component is used to compile, debug and execute the java programs?

- a) JDK
- b) JIT
- c) JRE
- d) JVM

4. What is the extension of java code files?

- a) .js
- b) .txt
- c) .class
- d) .java

5. What is the extension of compiled java classes?

- a) .txt
- b) .js
- c) .class
- d) .java

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

- a) 16 bits
- b) 32 bits
- c) 64 bits
- d) Platform dependent

7. JDK stands for ____.

- a) Java development kit
- b) Java deployment kit
- c) JavaScript deployment kit
- d) None of these

8.JRE stands for ____.

- a) Java run ecosystem
- b) JDK runtime Environment
- c) Java Runtime Environment
- d) None of these

9.Which of these is not a valid Java datatype?

- a) float
- b) boolean
- c) character
- d) byte

10.Every statement in Java language should end with a?

- a) Dot or Period
- b) Comma
- c) Semicolon
- d) Colon

11. What was the original name of Java before it was renamed?

- a) Oak
- b) Silk
- c) Dynamic
- d) Spruce

12.Java was developed at which company?

- a) Microsoft
- b) IBM
- c) Sun Microsystems
- d) Google

13.Choose a Single Line Comment in Java Language below?

- a) //Some comments
- b) Some comments//
- c) /*Some comments*/
- d) */Some comments/*

14. Name of a Class, Variable, Method or an Interface in Java language is called?

- a) Argument
- b) Value
- c) Identifier
- d) None of the above

15. What was one of the main reasons Java was renamed from Oak to Java?

- a) Oak was already a trademarked name.
- b) The team liked the name Java better.
- c) It was named after the island of Java.
- d) Oak was not suitable for marketing.

16. Which of the following declarations does not compile?

- a) `double num1, int num2 = 0;`
- b) `int num1, num2;`
- c) `int num1, num2 = 0;`
- d) `int num1 = 0, num2 = 0;`

17. A compiler converts the Java program into an intermediate language representation called

-
- a) bytecode
 - b) byte
 - c) byteclass
 - d) bytejava

18. Which organization currently maintains the Java programming language?

- a) Google
- b) Oracle Corporation
- c) Microsoft
- d) Apple

19. What is byte code in the context of Java?

- a) The type of code generated by a Java compiler.
- b) The type of code generated by a Java Virtual Machine.
- c) It is another name for a Java source file.
- d) It is the code written within the instance methods of a class.

20. Identify, from among the following, the incorrect variable name(s).

- a) _theButton
- b) \$reallyBigNumber
- c) 2ndName
- d) CurrentWeatherStateofplanet
- e) my2ndFont.

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

- a) int
- b) float
- c) boolean
- d) String

22. Which of the following is responsible for converting Java bytecode into machine-specific code?

- a) JRE
- b) JIT compiler
- c) Java compiler
- d) JVM

23. Java programs are independent.

- a) platform
- b) procedural
- c) high level
- d) Secure

24. Which component is included in both JDK and JRE?

- a) JVM
- b) Compiler
- c) Debugger
- d) IDE

25. What does JIT stand for in Java?

- a) Java Interpreting Tool
- b) Just-In-Time Compiler
- c) Java Information Technology
- d) Java Integration Toolkit

26. Which of the following is the correct relationship among JDK, JRE, and JVM?

- a) JRE includes JVM, and JDK includes JRE.
- b) JVM includes JRE, and JRE includes JDK.

- c) JDK includes JVM, and JVM includes JRE.
- d) JRE includes JDK, and JDK includes JVM

27. A valid Identifier or name in Java language can start with which character?

- a) a-z, A-Z
- b) \$, _
- c) 0-9
- d) A and B

28. The JVM is a part of which of the following?

- a) JDK only
- b) JRE only
- c) Both JDK and JRE
- d) Neither JDK nor JRE

29. Multiline comment is created using ____.

- a) //
- b) /* */
- c) <!-- -- >
- d) All of these

30. What makes the Java platform independent?

- a) Advanced programming language
- b) It uses JVM for execution
- c) Class compilation
- d) All of these

31. Number of primitive data types in Java are?

- a) 5
- b) 6
- c) 7
- d) 8

32. What is the size of float and double in java?

- a) 32 and 64
- b) 32 and 32
- c) 64 and 64

d)64 and 32

33.Which of the following statements about JVM is true?

- a) JVM is platform-independent.
- b) JVM is platform-dependent.
- c) JVM compiles Java source code into bytecode.
- d) JVM is responsible for garbage collection in Java

34.Which of the following tasks does JIT perform?

- a) Converts Java source code to bytecode.
- b) Converts bytecode to native machine code.
- c) Manages memory allocation for Java objects.
- d) Executes bytecode line by line.

35.What does the JDK provide that the JRE does not?

- a) JVM
- b) Libraries for running Java applications
- c) Development tools like a compiler and debugger
- d) Native machine code

36. What is a Compiler?

- A) A Compiler scans entire program at once.
- B) A compiler converts source code to byte code
- C) Compiler is slow in debugging.
- D) All the above

37.Choose a correct statement about Java source files.

- A) Java files are human readable
- B) Java files contain Classes with Methods and Variables
- C) Import statements import library Classes into our class
- D) All the above

38.Byte code is the result of?

- A) Compiling a Java file
- B) Compiling a Class file
- C) Interpreting a Java File
- D) Interpreting a Class file

39.What does it mean for Java to be platform-independent?

- a) Java can only run on Windows.
- b) Java source code can be compiled into native code for different platforms.
- c) Java programs can run on any platform without modification.
- d) Java programs must be rewritten for different platforms.

40.When was first Version of Java i.e Java 1.0 was released?

- A) 1991
- B) 1994
- C) 1996
- D) 1999

41.In Java, platform independence is achieved by compiling the source code into what?

- a) Machine code
- b) Assembly code
- c) Bytecode
- d) Native code

42.What is JIT in Java?

- A) Java In Timer
- B) Java In Time Thread
- C) Just In Time Compiler
- D) Just In Time Runnable

43.Choose the correct statement about Java?

- A) JIT Compiler produces Byte Code from Java file.
- B) JIT Compiler takes chunks of Byte Code as input and produces Executable code on that particular machine.
- C) JIT Compiler assists the actual JAVAC compiler to compile fast
- D) None of the above

44.What role does bytecode play in making Java platform-independent?

- a) Bytecode is platform-specific and executed directly by the hardware.
- b) Bytecode is interpreted by the JVM, making Java programs run on any platform with a JVM.
- c) Bytecode is compiled into machine code by the JIT compiler for each platform.
- d) Bytecode is an intermediate language that only works on Linux-based platforms.

45. Which of the following is a limitation of Java's platform independence?

- a) Java applications can only run on UNIX-based systems.
- b) Java applications require the presence of a JVM for the target platform.
- c) Java must be recompiled for each platform to achieve platform independence.
- d) Java bytecode is different for different platforms.

46. What happens when you run the javac command?

- a) It converts the Java source code into machine-specific code.
- b) It translates Java source code into bytecode.
- c) It runs the compiled Java program.
- d) It converts bytecode into platform-specific instructions.

47. A function in C language is similar to what in Java language?

- A) Method
- B) Member
- C) Variable
- D) None of the above

48. What is the primary role of the JVM (Java Virtual Machine)?

- a) It compiles Java code into bytecode.
- b) It converts bytecode into machine code and runs Java applications.
- c) It is used for debugging Java code.
- d) It is a part of the Java compiler.

49. Choose a correct version of Java Documentation Comment?

A)
/*
comments
*/

B)
/**
comments
*/

C)
/*
comments
**/

D)
/**
comments

**/

50. which among the following is not a Data Type in Java?

- A) short
- B) int
- C) long double
- D) double