

■ Java MCQs – Set 2 Answer Key ■

Q1) Who invented Java Programming?

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

■ Answer: b) James Gosling

Q2) 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

■ Answer: d) Java is a platform-independent programming language

Q3) Which component is used to compile, debug and execute the java programs?

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

■ Answer: a) JDK

Q4) What is the extension of java code files?

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

■ Answer: d) .java

Q5) What is the extension of compiled java classes?

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

■ Answer: c) .class

Q6) What is the size of an int in Java?

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

■ Answer: b) 32 bits

Q7) JDK stands for ____.

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

■ Answer: a) Java development kit

Q8) JRE stands for ____.

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

■ Answer: c) Java Runtime Environment

Q9) Which of these is not a valid Java datatype?

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

■ Answer: c) character (should be 'char')

Q10) Every statement in Java language should end with a?

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

■ Answer: c) Semicolon

Q11) What was the original name of Java before it was renamed?

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

■ Answer: a) Oak

Q12) Java was developed at which company?

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

■ Answer: c) Sun Microsystems

Q13) Choose a Single Line Comment in Java Language below?

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

■ Answer: a) //Some comments

Q14) 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

■ Answer: c) Identifier

Q15) Why was Java renamed from Oak?

- 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.
- Answer: a) Oak was already a trademarked name.

Q16) 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;
- Answer: a) double num1, int num2 = 0;

Q17) A compiler converts the Java program into ____

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

Q18) Which organization currently maintains the Java programming language?

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

Q19) What is byte code in Java?

- a) The type of code generated by a Java compiler.
 - b) The type of code generated by a JVM.
 - c) Another name for a Java source file.
 - d) Code written within instance methods.
- Answer: a) The type of code generated by a Java compiler.

Q20) Identify the incorrect variable name(s).

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

Q21) Which of the following is not a primitive data type in Java?

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

Q22) Which converts bytecode into machine-specific code?

- a) JRE

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

■ Answer: b) JIT compiler

Q23) Java programs are ____ independent.

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

■ Answer: a) platform

Q24) Which component is included in both JDK and JRE?

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

■ Answer: a) JVM

Q25) What does JIT stand for in Java?

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

■ Answer: b) Just-In-Time Compiler

Q26) 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

■ Answer: a) JRE includes JVM, and JDK includes JRE.

Q27) A valid Identifier can start with?

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

■ Answer: d) A and B

Q28) JVM is a part of?

- a) JDK only
- b) JRE only
- c) Both JDK and JRE
- d) Neither

■ Answer: c) Both JDK and JRE

Q29) Multiline comment is created using?

- a) //
- b) /* */
- c)

d) All of these

■ Answer: b) /* */

Q30) What makes Java platform independent?

a) Advanced language

b) It uses JVM for execution

c) Class compilation

d) All of these

■ Answer: b) It uses JVM for execution

Q31) Number of primitive data types in Java?

a) 5

b) 6

c) 7

d) 8

■ Answer: d) 8

Q32) Size of float and double in Java?

a) 32 and 64

b) 32 and 32

c) 64 and 64

d) 64 and 32

■ Answer: a) 32 and 64

Q33) Which statement 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

■ Answer: b) JVM is platform-dependent.

Q34) 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 objects.

d) Executes bytecode line by line.

■ Answer: b) Converts bytecode to native machine code.

Q35) What does JDK provide that JRE does not?

a) JVM

b) Libraries

c) Development tools like compiler/debugger

d) Native machine code

■ Answer: c) Development tools like compiler/debugger

Q36) What is a Compiler?

a) Scans entire program

b) Converts source code to bytecode

c) Slow in debugging

d) All the above

■ Answer: d) All the above

Q37) Correct statement about Java source files?

- a) Human readable
- b) Contain Classes with Methods/Variables
- c) Import statements bring libraries
- d) All the above

■ Answer: d) All the above

Q38) 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

■ Answer: a) Compiling a Java file

Q39) What does platform-independent mean in Java?

- a) Only runs on Windows
- b) Compiled to native code for each platform
- c) Runs on any platform with JVM
- d) Must be rewritten

■ Answer: c) Runs on any platform with JVM

Q40) When was Java 1.0 released?

- a) 1991
- b) 1994
- c) 1996
- d) 1999

■ Answer: c) 1996

Q41) Platform independence is achieved by compiling source into?

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

■ Answer: c) Bytecode

Q42) What is JIT in Java?

- a) Java In Timer
- b) Java In Time Thread
- c) Just In Time Compiler
- d) Just In Time Runnable

■ Answer: c) Just In Time Compiler

Q43) Correct statement about JIT?

- a) Produces Byte Code from Java file
- b) Takes bytecode and produces machine code
- c) Assists JAVAC compiler
- d) None of the above

■ Answer: b) Takes bytecode and produces machine code

Q44) What role does bytecode play in platform-independence?

- a) Platform-specific
 - b) Interpreted by JVM on any platform
 - c) Compiled into machine code by JIT
 - d) Works only on Linux
- Answer: b) Interpreted by JVM on any platform

Q45) Limitation of Java's platform independence?

- a) Runs only on UNIX
 - b) Requires JVM for target platform
 - c) Must be recompiled for each platform
 - d) Bytecode differs
- Answer: b) Requires JVM for target platform

Q46) What happens when you run javac?

- a) Converts source to machine code
 - b) Translates source to bytecode
 - c) Runs the program
 - d) Converts bytecode to instructions
- Answer: b) Translates source to bytecode

Q47) A function in C is similar to what in Java?

- a) Method
 - b) Member
 - c) Variable
 - d) None
- Answer: a) Method

Q48) Primary role of JVM?

- a) Compiles Java code to bytecode
 - b) Converts bytecode to machine code and runs apps
 - c) Debugs Java code
 - d) Part of compiler
- Answer: b) Converts bytecode to machine code and runs apps

Q49) Correct version of Java Documentation Comment?

- a) /* comments */
 - b) /** comments */
 - c) /* comments **/
 - d) /** comments **/
- Answer: b) /** comments */

Q50) Which among the following is not a Data Type in Java?

- a) short
 - b) int
 - c) long double
 - d) double
- Answer: c) long double