Who is known as the father of Java programming language?

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

Which of the following is not a feature of Java?

a) Platform Independent
b) Object-Oriented
c) Pointer support for direct memory access
d) Robust
Answer: c) Pointer support for direct memory access

Which of the following statements is true about Java?

a) Java is a platform-dependent programming language.
b) Java supports multiple inheritance using classes.
c) Java uses both compiler and interpreter.
d) Java does not support multithreading.
Answer: c) Java uses both compiler and interpreter

What is the size of int in Java?

a) 2 bytes
b) 4 bytes
c) 8 bytes
d) Depends on OS
Answer: b) 4 bytes (32 bits)

Which of the following numeric data types in Java has the highest precision?

a) int
b) long
c) float
d) double
Answer: d) double

Java is called platform-independent because:

a) Java uses pointers like C
b) Java compiler generates bytecode that can run on any JVM
c) Java runs only on Windows and Linux
d) Java code is converted directly to machine code
Answer: b) Java compiler generates bytecode that can run on any JVM

Which component of Java makes it platform-independent?

    a) JDK
    b) JVM
    c) JRE
    d) Bytecode
Answer: d) Bytecode

What is the size of a long in Java?

    a) 2 bytes
    b) 4 bytes
    c) 8 bytes
    d) JVM dependent
Answer: c) 8 bytes (64 bits)

Which of the following types can hold decimal values?

    a) int
    b) long
    c) float
    d) char
Answer: c) float (also double)

What is the size of a char in Java?

    a) 1 byte
    b) 2 bytes
    c) 4 bytes
    d) JVM dependent
Answer: b) 2 bytes (Unicode)

What is bytecode in Java?

    a) Machine code for Windows only
    b) Code generated by JVM
    c) Intermediate code generated by Java compiler
    d) Assembly code
Answer: c) Intermediate code generated by Java compiler

Which of the following is responsible for making Java portable?

    a) JDK
    b) JVM
    c) Bytecode
    d) Both b & c
Answer: d) Both b & c

Which component includes JVM + libraries + other files needed to run Java programs?

    a) JDK
    b) JRE
    c) Compiler
    d) Bytecode
Answer: b) JRE

Which of the following is not included in JRE?

    a) JVM
    b) Libraries
    c) Compiler (javac)
    d) ClassLoader
Answer: c) Compiler (javac)

Which of the following converts Java source code into bytecode?

    a) JVM
    b) JRE
    c) JDK (javac compiler)
    d) Interpreter only
Answer: c) JDK (javac compiler)