

## ***Assignment: - 1: Introduction to Computer programming and Java Question and Answer***

1. What is machine-level language also known as?

=> Binary code

2. What consists of instructions directly executed by a computer's hardware?

=> Assembly code

3. What is an advantage of machine-level programming language?

=> Direct control over hardware

4. What is a disadvantage of machine-level programming language?

=> Easy for humans to read and write

5. What is one step above machine code in programming languages?

=> Assembly language

6. What do low-level programming languages use to represent operations and memory addresses?

=> Mnemonics and symbols

## ***Assignment: - 1: Introduction to Computer programming and Java Question and Answer***

7. Which type of programming language provides a balance between low-level and high-level languages?

=> Mid-level language

8. In which language are instructions represented using mnemonics like MOV for move and ADD for addition?

=> x86 Assembly Language

9. What type of programming languages provide powerful constructs for solving complex problems?

=> High-level language

10. What is an advantage of high-level programming languages?

=> Portability across platforms

11. Which language introduced structured programming concepts like loops and blocks?

=> ALGOL (Algorithmic Language)

12. Which programming language is known for its readability and English like syntax?

=> COBOL

## ***Assignment: - 1: Introduction to Computer programming and Java Question and Answer***

13. Who were the creators of the Java programming language?

=> James Gosling and Mike Sheridan

14. When was Java officially announced to the public?

=> 1995

15. What was the original name of the language before it was renamed to Java?

=> Oak

16. What is the slogan that highlights Java's platform independence?

=> Write Once, Run Anywhere (WORA)

17. What component is required to execute Java bytecode on a specific platform?

=> Java Compiler

18. What feature of Java allows it to be platform independent?

=> Write Once, Run Anywhere (WORA)

19. Which company acquired Sun Microsystems, taking over the development of Java? => Oracle Corporation

## ***Assignment: - 1: Introduction to Computer programming and Java Question and Answer***

20. What consists of sequences of binary digits (0s and 1s) that directly control the computer's hardware?

=> Bytecode

21. Which programming language is one step above machine code?

=> Assembly language

22. What is a major disadvantage of machine-level programming language?

=> Highly specific to architecture

23. Which programming language provides more human-readable representation of computer instructions using mnemonics and symbols?

=> Low-level language

24. Which type of programming language is closer to hardware compared to high-level languages?

=> Low-level language

25. What do low-level programming languages like assembly use to represent operations and memory addresses?

=> Mnemonics and symbols

## ***Assignment: - 1: Introduction to Computer programming and Java Question and Answer***

26. Which type of language offers higher-level abstractions while still allowing direct access to system resources?

=>Mid-level language

27. Which language is known for its use of mnemonics like MOV for move and ADD for addition?

=> x86 Assembly

28. Which type of programming languages are designed to be more abstract and user-friendly?

=>High-level language

29. What is a key advantage of high-level programming languages?

=>Portability across platforms

30. Which language introduced structured programming concepts like loops and blocks?

=> ALGOL (Algorithmic Language)

31. What is one of the characteristics of COBOL programming language?

=> Readability and English-like syntax

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39. What was the original purpose of the "Green Project" initiated by Sun Microsystems?

=> To develop a programming language for interactive television

40. What is machine-level language also known as?

=> Binary code

41. What is an advantage of machine-level programming language?

=> Direct control over hardware

42. What is a disadvantage of machine-level programming language?

=> Requires deep understanding of computer architecture

43. What is one step above machine code in programming languages?

=> Assembly language

44. What do low-level programming languages use to represent operations and memory addresses?

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