

1. **Which of the following is used to give instructions to a computer?**

- a. Hardware
- b. Software
- c. Program/Code
- d. Database

(Answer: c)

2. **Which programming language is commonly used for web development?**

- a. HTML
- b. Java
- c. Python
- d. All of the above

(Answer: d)

3. **What does "bug" mean in programming?**

- a. A computer virus
- b. A mistake or error in code
- c. A type of software
- d. A system update

(Answer: b)

4. **Which symbol is used to end a statement in Java?**

- a. , (comma)
- b. . (period)
- c. ; (semicolon)
- d. : (colon)

(Answer: c)

5. **What does IDE stand for in programming?**

- a. Internal Design Editor
- b. Integrated Development Environment
- c. Internet Data Exchange
- d. Interactive Debugging Engine

(Answer: b)

6. **In coding, what does "loop" mean?**

- a. Repeating a set of instructions
- b. Storing data in memory
- c. Combining two programs
- d. Fixing an error

(Answer: a)

7. **Which of the following is NOT a programming language?**

- a. Python
- b. Java
- c. Photoshop
- d. C++

(Answer: c)

8. **What is the first step in solving a programming problem?**

- a. Debugging
- b. Writing the code immediately
- c. Planning and understanding the problem
- d. Compiling the program

(Answer: c)

9. **Which of these is used to store multiple values in programming?**

- a. Loop
- b. Array
- c. Variable
- d. Function

(Answer: b)

10. **Which of the following jobs is most related to software development?**

- a. Animator
- b. Game Developer
- c. Photographer
- d. Video Editor

(Answer: b)

11. **Which programming language is often used for Artificial Intelligence and Data Science?**

- a. C
- b. Java
- c. Python
- d. HTML

(Answer: c)

12. **What does GUI stand for?**

- a. General User Instruction
- b. Graphical User Interface
- c. Global Utility Input
- d. Generated Utility Interaction

(Answer: b)

13. **Which of the following is used to manage and store data in software applications?**

- a. Algorithm
- b. Database
- c. Flowchart
- d. Compiler

(Answer: b)

14. **In HTML, which tag is used to display the largest heading?**

- a. <h6>
- b. <h1>
- c. <head>
- d. <title>

(Answer: b)

15. **Which of these is an open-source operating system often used by developers?**

- a. Windows
- b. Linux
- c. macOS
- d. Android

(Answer: b)

16. **What does an algorithm represent?**

- a. A step-by-step solution to a problem
- b. A debugging tool
- c. A computer virus
- d. A type of database

(Answer: a)

17. **Which software development model is known for step-by-step phases (planning, design, coding, testing)?**

- a. Agile
- b. Waterfall
- c. Spiral
- d. Prototype

(Answer: b)

18. **Which type of loop will always run at least once in most programming languages?**

- a. For loop
- b. While loop
- c. Do-while loop
- d. Nested loop

(Answer: c)

19. **Which profession is responsible for testing software to ensure it works correctly?**

- a. Software Tester
- b. Graphic Designer
- c. Animator
- d. Editor

(Answer: a)

20. **What does API stand for in software development?**

- a. Application Programming Interface
- b. Advanced Program Instruction
- c. Algorithm Processing Input
- d. Automated Program Index

(Answer: a)