

Elementary Computer Science Mastery

Computer Science · Practice Test · 25 Questions

1. Which component of a computer is often referred to as the 'brain' because it executes instructions and performs calculations?

- A) Hard Drive
- B) Central Processing Unit (CPU)
- C) Random Access Memory (RAM)
- D) Power Supply

2. What does the acronym 'URL' stand for in the context of the World Wide Web?

- A) Universal Retrieval Link
- B) Uniform Resource Locator
- C) Unified Routing Logic
- D) User Recognition Layer

3. In binary code, which two numbers represent all data stored in a computer?

- A) 0 and 1
- B) 1 and 2
- C) 1 and 10
- D) 0 and 9

4. Which type of computer memory is 'volatile,' meaning it loses all stored information when the power is turned off?

- A) ROM
- B) Flash Drive
- C) Hard Disk Drive
- D) RAM

5. What is the primary function of an Operating System (OS)?

- A) To connect to the internet
- B) To manage hardware and software resources
- C) To create graphical images
- D) To compile high-level programming code

6. Which of these storage units is the largest?

- A) Gigabyte
- B) Terabyte
- C) Megabyte
- D) Kilobyte

7. In programming, what is a 'loop' used for?

- A) Storing data values
- B) Repeating a block of code multiple times
- C) Checking if a condition is true or false
- D) Defining a new function

8. What is the purpose of an 'algorithm'?

- A) To translate code into machine language
- B) To provide a step-by-step procedure for solving a problem
- C) To identify viruses in a network
- D) To power the computer

9. Which protocol is used to transmit data across the internet?

- A) HTTP
- B) USB
- C) HDMI
- D) VGA

10. What does the 'GUI' in computing stand for?

- A) Graphical User Interface
- B) General Utility Integration
- C) Global User Index
- D) Graphic Unit Instruction

11. Which of the following is an example of an input device?

- A) Monitor
- B) Speaker
- C) Printer
- D) Keyboard

12. What is 'debugging' in computer programming?

- A) Writing new code
- B) Identifying and fixing errors in code
- C) Testing the hardware speed
- D) Deleting files to free up space

13. What does a 'compiler' do?

- A) Protects the computer from hackers
- B) Connects peripheral devices
- C) Translates high-level code into machine code
- D) Organizes folders in the operating system

14. Which symbol is commonly used in many programming languages to indicate the end of a statement?

- A) Colon (:)
- B) Comma (,)
- C) Semicolon (;)
- D) Period (.)

15. What is the 'motherboard' of a computer?

- A) The power supply unit
- B) The main circuit board that connects all components
- C) The software that runs the monitor
- D) The casing that protects the fan

16. Which of these is considered 'software' rather than 'hardware'?

- A) A monitor
- B) A computer mouse
- C) A web browser
- D) A central processing unit

17. In a computer network, what does a 'server' do?

- A) Stores data and provides services to other computers
- B) Displays web pages to the user
- C) Connects to the printer wirelessly
- D) Translates input from a mouse

18. What is a 'pixel'?

- A) A type of computer virus
- B) The smallest unit of a digital image
- C) A language for coding websites
- D) A type of physical data storage

19. Which of the following is a high-level programming language?

- A) Machine Code
- B) Assembly
- C) Python
- D) Binary

20. What does the 'LAN' acronym stand for in networking?

- A) Local Area Network
- B) Linked Access Node
- C) Large Area Net
- D) Logical Application Network

21. What is the main function of an ISP?

- A) To build computer chips
- B) To provide internet access to users
- C) To create computer games
- D) To manufacture keyboards

22. Which device acts as a gateway to connect a home network to the internet?

- A) Router
- B) Hard Drive
- C) RAM stick
- D) Graphics Card

23. What is a 'variable' in programming?

- A) A way to print text on the screen
- B) A named storage location for a data value
- C) An error in the program logic
- D) A type of input device

24. What is an 'integer' in computer programming?

- A) A word or phrase
- B) A whole number without decimals
- C) A decimal value
- D) A true or false value

25. Which of these is an example of a web browser?

- A) Windows
- B) Firefox
- C) Linux
- D) Android