

Elementary Computer Science Mastery

Computer Science · Answer Key · 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