Fundamentals of Computing Science

Computer Science · Answer Key · 8 Questions

1. Which component of a CPU is responsible for performing arithmetic and logical operations on data?

A) Control Unit
B) Arithmetic Logic Unit (ALU)
C) Register File
D) Cache Memory

2. In the context of computer data storage, what is the exact number of bits in one byte?

A) 4 bits
B) 8 bits
C) 16 bits
D) 32 bits

3. What is the primary function of the BIOS (Basic Input/Output System) during the computer startup process?

A) To manage internet connectivity
B) To initialize and test hardware components
C) To execute user-level applications
D) To compile source code

4. Which type of computer memory is volatile, meaning it loses its data when power is removed?

A) ROM
B) Flash Storage
C) RAM
D) EEPROM

5. What is the standard measurement unit for the clock speed of a modern microprocessor?

A) Gigahertz (GHz)
B) Megabits per second (Mbps)
C) Terabytes (TB)
D) Joules (J)

6. Which numerical system do computers use to represent internal data and instructions at the hardware level?

A) Decimal
B) Hexadecimal
C) Binary
D) Octal

7. What is the purpose of an Operating System kernel?

A) To provide a graphical user interface
B) To manage hardware-software interactions and process scheduling
C) To store long-term user files
D) To act as a web browser

8. Which network protocol is specifically designed for the secure transfer of files between a client and a server?

A) HTTP
B) SFTP
C) UDP
D) ICMP

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