

Assignment-1

Understanding of Hardware and Its Components

Section 1: Multiple Choice

1. Which of the following is NOT a component of the CPU?

- A. ALU
- B. RAM
- C. CU
- D. 1 and 3 both

Ans: D. RAM

2. What is the function of RAM in a computer?

Ans:

- RAM stands for Random Access Memory.
- RAM is volatile Memory, means it loses data when the power is turned off.
- RAM stores data that the processor needs to run applications and open files and execute programs.

3. Which of the following is a primary storage device?

- A. HDD
- B. SSD
- C. SD card
- D. A and B both

Ans: D. A and B both

4. What is the purpose of a CPU?

Ans:

- The CPU (Central Processing Unit) is the primary component of a computer responsible for executing instructions and performing calculations necessary for running programs and carrying out tasks.
- Its purpose is to process data and execute instructions, making it the "brain" of the computer.

Section 2: True OR False

5. The motherboard is the main circuit board of a computer where other components are attached. - **True**

6. A UPS (Uninterruptible Power Supply) is a hardware device that provides emergency power to a load when the input power source fails. - **True**

7. An expansion card is a circuit board that enhances the functionality of a component. - **True**

Section 3: Short Answer

8. Explain the difference between HDD and SSD ?

Ans:

HDD	SSD
• HDD (Hard Disk Drives) is slower	• SSD (Solid Disk Drive) is faster
• HDD is cheaper .	• SSD is more expensive .
• HDD have moving parts .	• SSD don't have moving parts .
• HDD is Heavier in Weight .	• SSD is lighter in Weight .
• HDD is Larger in Size .	• SSD is Small in size .

9. Describe the function of BIOS in a computer system?

Ans:

- **BIOS** stands for **Basic Input/Output System**.
- **Primary Function:-** Handle the System Setup process and operating system Booting.
- **BIOS** keeps all information of system components attached to the computer.
- **BIOS** four main functions:-
- **Power-On-Self-Test.**
- **Boot menu Loader.**
- **Drivers Configurations.**
- **Complementary Metal Oxide Semiconductor(CMOS) Setup.**

10. List and briefly explain three input devices commonly used with computers.

Ans:

-
- **Keyboard**
- **Mouse**
- **Scanner**
- **Touchpad**
- **Microphone**
- **Webcam**

- **Joystick**

1. **Keyboard:-**

- **Function:-** A keyboard is used to input text, numbers, and commands into the computer. It is consist of letters(A-Z),numbers(0-9) and symbols.

2. **Mouse:-**

- **Function:-**A mouse is pointing device that allows user to interact with the computer's GUI.

3. **Scanner:-**

- **Function:-** A scanner analyze physical documents and images , converting them into digital form for storage and sharable.