**Assignment - 1**

**Understanding of Hardware and Its Components**

**Section 1: Multiple Choice**

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

**ANS :** 1 & 3 BOTH

1. **What is the function of RAM in a computer?**

**ANS :** ram is temporary memory and ram stores data needs to retrieve quickly .

1. **Which of the following is a primary storage device?**

**ANS :** SD CARD.

1. **What is the purpose of a GPU?**

**ANS :** FOR HIGH DEMANDS OF GRAPHICS & GAMING.

**Section 2: True or False**

1. **True or False: The motherboard is the main circuit board of a computer where other components are attached.**

**ANS :** TRUE.

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

**ANS :**TRUE.

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

**ANS :** TRUE.

**Section 3: Short Answer**

1. **Explain the difference between HDD and SSD.**

**ANS :**

|  |  |  |
| --- | --- | --- |
| **SR. NO.** | **HDD** | **SSD** |
| 1 | Store data in magnetic disk. | Store data in flash memory. |
| 2 | HDD is slower then SSD | SSD is faster then HDD |

1. **Describe the function of BIOS in a computer system.**

**ANS :** Bios collect all configuration , files & drivers files for start a computer.

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

**ANS :** I ) KEYBOARD

ii) MOUSE

iii) MONITER

**Section 4: Practical Application**

**11. Identify and label the following components on a diagramof a motherboard.**

1. CPU

2. RAM slots

3. SATA connectors

4. PCI-E slot

**12. Demonstrate how to install a RAM module into a computer.**

**ANS :** (11 , 12) : Done in lab

**Section 5: Essay**

**13. Discuss the importance of proper cooling mechanisms in a computer system. Include examples of cooling methods and their effectiveness.**

**ANS :** A cooling mechanisms IS very effective for computer heating problems. cooling mechanisms is used to keep computer components cool .

Ex : Sometimes we use high graphical works and play games and we observe that our phone, computer and laptops are too heat-up. Because of that our system is lag and hang and some time our system give some errors.

This proper cooling mechanism controls that heats and keep cool our computer system.

“ So that’s the discussion on “importance of proper cooling mechanism in a computer system.”

**14. Explain the concept of bus width and its significance in computer architecture.**

**ANS :**

* The thick and thin lines on the backside of the motherboard are called buses in computer architecture.
* buses are connect one component to another component .
* all components transfers any data via buses.
* Where the data came from and where it will go is all done through buses.