Assignment 01:- Understanding of Hardware and Its Components.

**Section 1: Multiple Choice**

1:- Which of the following is NOT a component of the CPU?

Ans :- 2. RAM

2:- What is the function of RAM in a computer?

Ans :- Ram store temporary Data While the PC is On or Working. without ram ew can not gate display output.

3:- Which of the following is a primary storage device?

Ans :- 4. 1 and 2 both

4:- What is the purpose of a GPU?

Ans:- A GPU (Graphics Processing Unit) is used to render images, videos, and animations very fast . with external GPU we can perform havy task like Gaming and vidio editing.

**Section 2: True or False**

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

Ans:- True

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

**Ans :- True**

**Section 3: Short Answer**

8:- Explain the difference between HDD and SSD.

Ans :-

HDD:-HDD is old storage device.

In it there is moving cd that store data of computer.

SDD:-SDD new generation storage device.

In it there is small chip which store data of our computer.

* Describe the function of BIOS in a computer system.

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

Ans :- Three commonly used computer input devices are the keyboard, mouse, and microphone. The keyboard allows for text and command input, the mouse provides pointing and clicking functionality, and the microphone captures audio input.

**Section 4: Practical Application**

* **Identify and label the following components on a diagramof a motherboard:**

**Ans :-**



13:- Discuss the importance of proper cooling mechanisms in a computer system. include exampples of cooling methods and their effectiveness.

Ans :- Proper cooling mechanisms are crucial in computer systems because excessive heat can lead to component damage, reduced performance, and ultimately, system failure.

Importance of Cooling:

* Component Protection
* Performance

System Stability

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

Ans :- There Are 3 Types of bus :-

* Address Bus
* Control Bus
* Data Bus

