**ASSIGNMENT:1**

**Section 1: Multiple Choice**

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

**🡪**RAM

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

**🡪** A computer's RAM stores data for short-term use

**🡪**It reads files faster

**🡪**improve application performance

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

**🡪** HDD & SSD

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

**🡪**The main purpose of GPU is to perform work related to graphical representation such as playing videos & showing effects to display. It is also useful for learning AI, crypto mining & machine learning.

**Section 2: T or F**

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

**🡪**True

**6. 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.**

**🡪**True

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

**🡪**True

**Section 3: Short Answers**

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

**🡪 HDD:**

* HDD is slower than SSD
* HDD has a larger capacity
* It stores data in a magnetic disk
* The cost of HDD is cheaper

**SSD:**

* SSD is faster than HDD
* It has a low capacity
* SSD stores data in a Flash memory
* The cost of SSD is expensive

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

**🡪**The BIOS (Basic Input/Output System) is software that is embedded on a motherboard that provides the functions for booting a computer and managing hardware components.

**Key functions:**

* Power-on Self-Test
* Hardware Initialization and Configuration
* Booting the System
* Basic Hardware Control

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

**🡪** **Input devices :**

* Keyboard
* Mouse
* Scanner
* Webcam
* Joystick

1. **Keyboard:**

It is a device that inputs text and commands by pressing keys. It consists of letters, numbers, and special function keys.

1. **Mouse:**

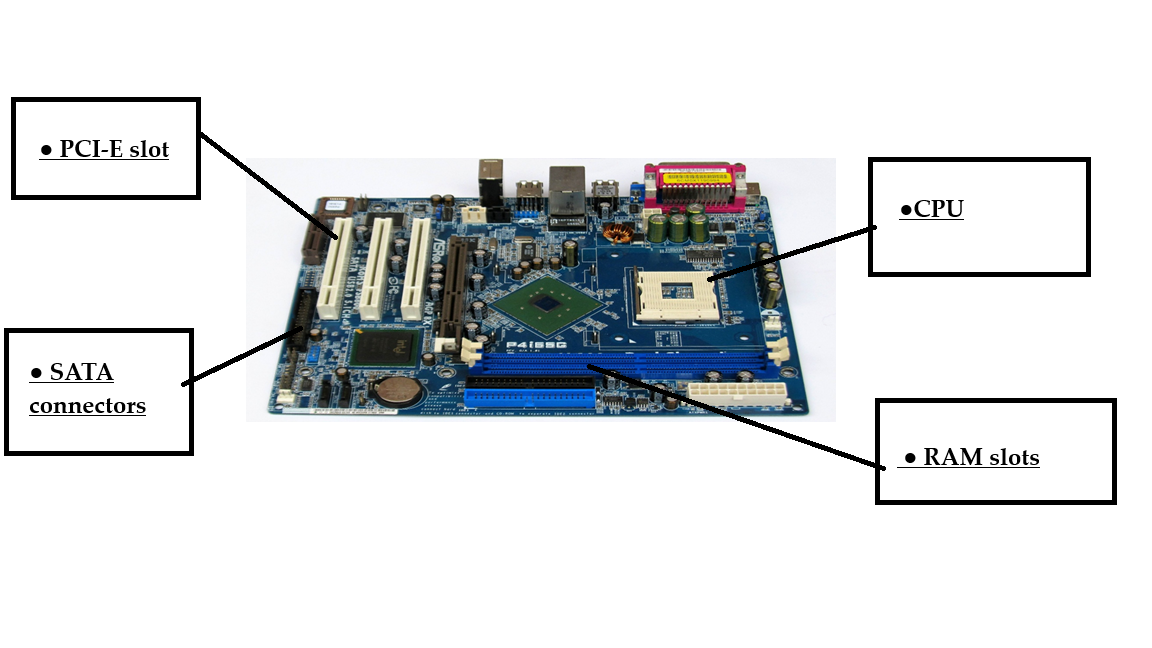
It is a pointing device that controls the cursor on the screen by moving it across a surface. It includes buttons for clicking and a scroll wheel.

1. **Scanner:**

A scanner is an optical device that converts physical documents, photos, or objects into digital formats that can be stored or edited on a computer.

Section 4: Practical Application

11. Identify and label the following components on a diagram of a motherboard: ●CPU ● RAM slots ● SATA connectors ● PCI-E slot

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