**MODULE 2**

**1) Which of the following precautions should be taken before working on computer hardware?**

Ans Wear an anti-static wrist strap to prevent damage from electrostatic discharge

**2) What is the purpose of thermal paste during CPU installation?**

Ans To improve thermal conductivity between the CPU and the heat sink.

**3) Which tool is used to measure the output voltage of a power supply unit (PSU)?**

Ans Multimeter 4) **Which component is responsible for storing BIOS settings, such as date and time, even when the computer is powered off?** Ans CMOS battery

**Section 2: True or False**

**5) When installing a new hard drive, it is essential to format it before use.** Ans True  **6) A POST (Power-On Self-Test) error indicates a problem with the CPU.** Ans False **7) It is safe to remove a USB flash drive from a computer without ejecting it first.** Ans False

**Section 3: Short Answer**

**8) Describe the steps involved in installing a new graphics card in a desktop computer.**

Ans Steps are follows

* Open CPU cabinet
* Locate PCI slot
* The graphic card to be inserted securely
* Connect power cable
* Close CPU cabinet and turn on the power of computer
* Install drivers

**9) What is RAID, and what are some common RAID configurations?**

Ans RAID stands for Redundant Array of Independent Disks. A system of multiple drives works together to enhance performance.

Common RAID types: - RAID 0: Fast, no backup

- RAID 1: Backup copy

- RAID 5: Performance + backup

- RAID 10: Combines RAID 0 and 1.

**Section 5: Essay**

**11) Discuss the importance of regular maintenance for computer hardware and provide examples of maintenance tasks.**

Ans Regular system maintenance allows your computer to function properly and stops issues.

For eg

* Cleaning dust inside the case
* Updating software and drivers
* Checking for malware and viruses
* Ensuring fans and power supply work well.