Assignment

Module -2: Installation and Maintenance of Hardware and It’s components

Section 1: Multiple Choice

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.

1. What is the purpose of thermal paste during CPU installation?

Ans :- To improve thermal conductivity between the CPU and the heat

Sink.

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

Ans :- Multimeter

1. 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

1. True or False: When installing a new hard drive, it is essential to format it before use.

Ans :- True

1. True or False: A POST (Power-On Self-Test) error indicates a problem with the CPU.

Ans :- True

1. True or False: It is safe to remove a USB flash drive from a computer without ejecting it first.

Ans :- False

Section 3: Short Answer

1. Describe the steps involved in installing a new graphics card in a desktop computer.

Ans :- Turn off your system, after remove side panel of CPU, fine PCI e Slot after remove old GPU and install new GPU then close the side panel and start your computer.

1. What is RAID, and what are some common RAID configurations?

Ans :- RAID is known as (**Redundant Array of Independent Disks)**. It's a data storage technology that combines multiple physical hard drives into one logical unit to improve **performance**, **redundancy**, or both.

Section 4: Practical Application

1. Demonstrate how to replace a CPU fan in a desktop computer.

Ans :- Shut down the PC, disconnect power cable, remove the side panel

find CPU unit and fan mounted heatsink and unplug the fan’s

power cable from mother board, unclip cooler from the mother

board, use isopropyl liquid for clean of old thermal paste, apply

new thermal paste on CPU, align new cooler and plug the fan’s

cable into CPU FAN header on motherboard & re attach side

panel and reconnect cables and boot the computer.

1. Discuss the importance of regular maintenance for computer hardware a

and provide examples of maintenance tasks.

Ans :- The importance of regular maintenance for computer hardware, it

contains best performance of computer and long life of components

& prevent unexpected failure of system.