**Installation and Maintenance of hardware and its components**

**Section 1: Multiple choice**

Que -1 : which of the following precaution should be taken before working on computer hardware ?

Ans : Ensure the computer is plugged in to prevent electrostatic discharge.

Que -2 : What is purpose of thermal paste during CPU installation ?

Ans : To prevent the CPU from overheating.

Que -3 : Which tool is used to measure the output voltage of power supply unit (PSU) ?

Ans : Multimeter

Que -4 : Which component is responsible for storing BIOS setting , such as date and time, even when the computer is power off ?

Ans : CMOS battery

**Section 2: True or False**

Que -5 : when installing a new hard drive , it is essential to format it before use.

Ans : False

Que -6 : A POST (power-on self-test) error indicate a problem with the CPU.

Ans : True

Que -7 : It is safe to remove a USB flash drive from a computer without ejecting first.

Ans : False

**Section 3: Short Answer**

Que -8 : Describe the steps involved in installing a new graphics card in a computer desktop.

Ans :

* First take out old graphics card.
* Then Place the new card in the slot, and press down until it locks into place.
* Then connect the power cable to the graphics card.
* Then restart the computer.

Que -9 : what is RAID and what are some command RAID configuration ?

Ans : RAID is an acronym for “redundant array of inexpensive disks”. When interpreted literally , it means storing information across an array of relatively low cost hard disk drives.

Command that are RAID configuration:

* Add
* Addhsp
* Changemode

**Section 4: Practical Application**

* Done the practical in the lab.

**Section 5: Essay**

Que -11 : Discuss the importance of regular maintenance for computer hardware and provide examples of maintenance task.

Ans :

* The regular hardware maintenance helps you identify existing issue and resolve them before they turn into complex problem that could result in data loss or system outage.
* In addition, regular maintenance improves performance and extends the life of hardware components before the need to replace them with new parts.

Examples of maintenance task:

* Regular cleaning
* Hardware inspection
* Software updates
* Backup and recovery
* Temperature and environment monitoring
* Clearing the cache in your internal browser
* Maintaining current anti-virus software