Assignment:

Module -1: Understanding of Hardware and Its Components

Section 1: Multiple Choice

1. Which of the following is NOT a component of the CPU?
    1. ALU
    2. RAM
    3. CU
    4. 1 and 3 both
2. What is the function of RAM in a computer?
3. Which of the following is a primary storage device?
    1. HDD
    2. SSD
    3. SD card
    4. 1 and 2 both
4. What is the purpose of a GPU?

Section 2: True or False

5. True or False: The motherboard is the main circuit board of a computer where other components are attached.
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.
7. True or False: An expansion card is a circuit board that enhances the functionality of a component.

Section 3: Short Answer

8. Explain the difference between HDD and SSD.
9. Describe the function of BIOS in a computer system.
10. List and briefly explain three input devices commonly used with computers.

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

12. Demonstrate how to install a RAM module into a computer.

Section 5: Essay

13. Discuss the importance of proper cooling mechanisms in a computer system. Include examples of cooling methods and their effectiveness.
14. Explain the concept of bus width and its significance in computer architecture.

Assignment module 2 : Installation and Maintenance of Hardware and Its

Section 1: Multiple Choice

1. Which of the following precautions should be taken before working on computer hardware?
   a) Ensure the computer is plugged in to prevent electrostatic discharge.
   b) Wear an anti-static wrist strap to prevent damage from electrostatic discharge.
   c) Work on carpeted surfaces to prevent slipping.
   d) Use magnetic tools to handle components more easily.

2. What is the purpose of thermal paste during CPU installation?
   a) To insulate the CPU from heat.
   b) To provide mechanical support for the CPU.
   c) To improve thermal conductivity between the CPU and the heat sink.
   d) To prevent the CPU from overheating.

3. Which tool is used to measure the output voltage of a power supply unit (PSU)?
   a) Multimeter
   b) Screwdriver
   c) Pliers
   d) Hex key

4. Which component is responsible for storing BIOS settings, such as date and time, even when the computer is powered off?
   a) CMOS battery
   b) CPU
   c) RAM
   d) Hard drive