

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?

- The full form of R.A.M is been mention below
- R = Random
A = Access
M = Memory
- The function of R.A.M is to temporarily stores data, instructions, and programs that the CPU needs right now to perform tasks quickly.
- When the computer is turned off, the data in RAM is erased

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?

- The full form of GPU is been mention below
- G= Graphics
P= Processing
U= Unit
- It is a special chip in a computer that helps to make the respective images, videos, and animations look smooth and clear on the screen of the respective device
- **Main purpose:**
- It handles graphics and visual tasks like games, movies, 3D designs
- It can also do heavy calculations very fast, that's the reason G.P.U is been used in AI, video editing, and scientific work.
- The C.P.U as the brain of the computer which is handling general tasks of an computer and the G.P.U as the artist/visualizer handling pictures, videos, and graphics

Section 2: True or False

5. The motherboard is the main circuit board of a computer where other components are attached. = **True**
6. A UPS (Uninterruptible Power Supply) is a hardware device that provides emergency power to a load when the input power source fails. = **True**
7. An expansion card is a circuit board that enhances the functionality of a component. = **True**

Section 3: Short Answer

8. Explain the difference between HDD and SSD.

• Comparison of S.S.D and H.D.D

H.D.D	S.S.D
The performance and read/write speed is this storage device is slow	The performance and read/write speed is this storage device is fast
It's cost is low compare to S.S.D	It's cost is high compare to H.D.D
It is available in any respective size	It had limited available in respective size
It is less reliable as it had mechanical moving so parts	It is reliable as it don't had mechanical moving so parts
It had more power consumption	It had less power consumption
It had more C.P.U power	It had less C.P.U power

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

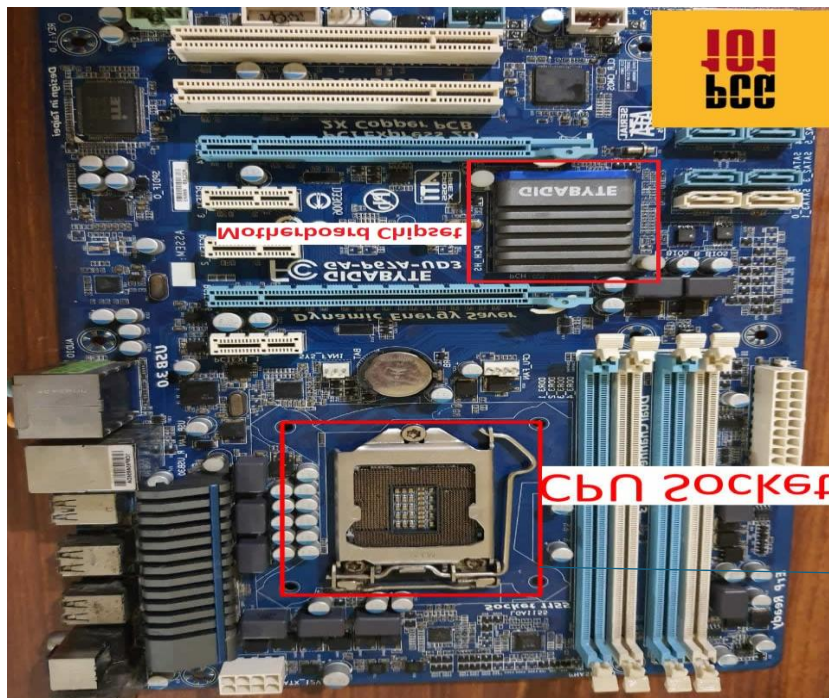
- The full form of B.I.O.S is been mention below
- B= Basic
I=Input
O=Output
S=System
- The B.I.O.S it's a program which is been use to connect the respective hardware of an computer is been connected and controlled with the programs and it act like interpreter between computer hardware and software that program is called as the B.I.O.S

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

- **Keyboard**
 - A keyboard is used to input text, numbers, and commands into the computer.
 - It consists of keys for letters, numbers, function keys, and special commands.
- **Mouse**
 - A mouse is a pointing device that controls the movement of a cursor on the screen.
 - It allows the user to click, select, drag, and drop items easily.
- **Scanner**
 - A scanner converts physical documents or images into digital form.
 - It allows users to store, edit, or share paper-based information electronically.

11. Identify and label the following components on a diagram of a motherboard:

● CPU



CPU

- RAM slots



- SATA connectors

