

## Section 1: Multiple Choice

1. Which of the following is NOT a component of the CPU?

**Ans: - 2. RAM**

2. What is the function of RAM in a computer?

**Ans: -**

RAM (Random Access Memory) works as the short-term memory for computer. Its main role is to store data temporarily.

It is a volatile memory that transfer data to the CPU. RAM is nearest to the CPU. Which is why is fast storage device for the CPU.

3. Which of the following is a primary storage device?

**Ans: - 4. 1 and 2 both**

4. What is the purpose of a GPU?

**Ans: -** The purpose of GPU is to provide smooth visual performance and rendering of images, videos, and animations.

## Section 2: True or False

5. True or False: The motherboard is the main circuit board of a computer where other components are attached.

**Ans: - True**

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.

**Ans: - True**

7. True or False: An expansion card is a circuit board that enhances the functionality of a component.

**Ans: - True**

## Section 3: Short Answer

8. Explain the difference between HDD and SSD.

**Ans: -**

### HDD

- ⇒ HDD (Hard Disk Drive)
- ⇒ It uses magnetic disk to rotate.
- ⇒ It is very slower than SSD due to the moving parts.
- ⇒ It is not durable because of moving parts.
- ⇒ It consumes more power than SSD.
- ⇒ More affordable than SSD.

### SSD

- ⇒ SSD (Solid Disk Drive)
- ⇒ It uses flash memory cells to store data electronically.
- ⇒ It is very faster than HDD because of using electronic storage.
- ⇒ It is durable and resistant to physical shock more than HDD.
- ⇒ **It consumes less power than HDD.**
- ⇒ **SSD are more expensive than HDD.**

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

**Ans: -**

1. **Post (Power on self-test): - check all post computer components.**
2. Bios' setup (Date & Time).
3. Bios create Inventory of your all computer components.
4. Bootstrap code (Locate & Load OS)
5. Booting is a process of loading OS from HDD and SSD to Ram.

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

**Ans: -**

**Keyboard: -** Keyboard is mainly used to input text, number, symbols, commands.

**Mouse: -** Mouse works as pointer for user to move cursor on screen. Mouse can be used for click [Right- left], drag, scrolling.

**Scanner: -** Scanner can be used for scan documents, images and convert them into digital format so they can see and view and edited.

#### Section 4: Practical Application [complete]

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.