



**GAIL DAV PUBLIC SCHOOL**  
**GAIL GAON, DIBIYAPUR, AURAIYA**

**Class XI**

**Subject: - Computer Science**

**Topic: Computer System Basics**

**Section A: Assertion – Reason**

Choose the correct option:

- A. Both A and R are true and R is the correct explanation
- B. Both A and R are true but R is not the correct explanation
- C. A is true but R is false
- D. A is false but R is true

1.

**Assertion:** CPU is called the brain of the computer.

**Reason:** It performs all arithmetic and logical operations.

2.

**Assertion:** RAM is a volatile memory.

**Reason:** Data is lost when power is switched off.

3.

**Assertion:** Compiler converts the whole program at once.

**Reason:** It translates line by line.

4.

**Assertion:** Operating System acts as an interface between user and hardware.

**Reason:** It manages system resources.

5.

**Assertion:** Secondary memory is faster than primary memory.

**Reason:** It stores data permanently.

**Section B: MCQs**

1. Which of the following is an input device?
  - a) Monitor
  - b) Printer
  - c) Keyboard
  - d) Speaker
  
2. Which memory is non-volatile?
  - a) RAM
  - b) Cache
  - c) ROM
  - d) Register
  
3. Which unit performs calculations?
  - a) CU
  - b) ALU
  - c) Memory
  - d) Input Unit

4. Example of system software:
  - a) MS Word
  - b) Windows
  - c) Photoshop
  - d) Excel
5. Full form of CPU:
  - a) Central Processing Unit
  - b) Control Processing Unit
  - c) Central Program Unit
  - d) Computer Processing Unit

#### **Section C: Short Answer Questions**

1. Define **hardware and software** with examples.
2. What is the difference between **RAM and ROM**?
3. Explain the **functions of Operating System**.
4. What is a **compiler and interpreter**?
5. Define **cache memory** and its importance.

#### **Section D: Long Answer Questions**

1. Explain the **basic structure of a computer system** with diagram.
2. Differentiate between:
  - Primary and Secondary Memory
  - System Software and Application Software
3. Explain **types of software** with suitable examples.
4. Describe the **functions of CPU (ALU & CU)** in detail.

#### **Section E: Case-Based Questions**

1. A school is setting up a computer lab. They need to decide on hardware and software components.

Answer the following:

- a) Name any two input and two output devices.
- b) Suggest one system software and one application software.
- c) Explain why RAM is required.

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#### **Section F: Very Short Questions (1 Mark each)**

1. What is IPO cycle?
2. Name any one output device.
3. What is firmware?
4. Define storage device.
5. What is booting?