

# INDEX

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## CHAPTER – 1

### COMPUTER SYSTEM

- Computer is an electronic device. It has various parts like Monitor, CPU, Keyboard, Mouse, etc. All these parts assemble together to make Computer System.

Computer System Consists of three main units –

- The Input Unit
- The Processing Unit
- The Output Unit

- The Input Unit : In this unit, devices help us to enter or feed the data in to the Computer System.

For Example : Keyboard, Mouse, Scanner, Microphone etc.

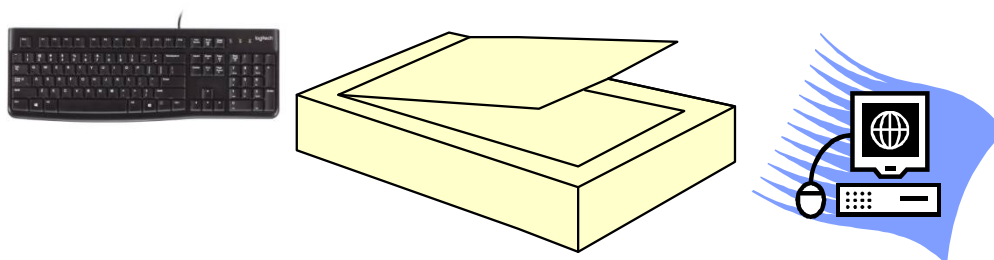


Fig 1.1 Showing the Input Devices

- The Processing Unit : In this unit , Input is processed by the CPU. It is called the Brain Of Computer . It is commonly called the CPU(CENTRAL PROCESSING UNIT)

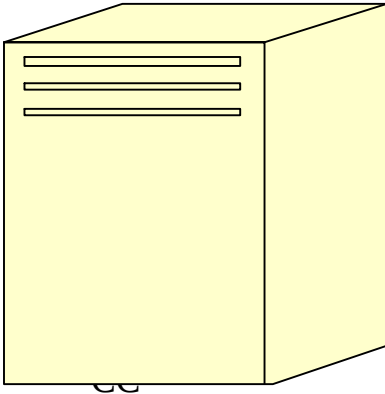


Fig 1.2 Showing the processing Device.

- The Out put Unit : This unit shows the result of the processed data which is processed by the CPU.

For Example : Monitor, speaker , Printer etc.

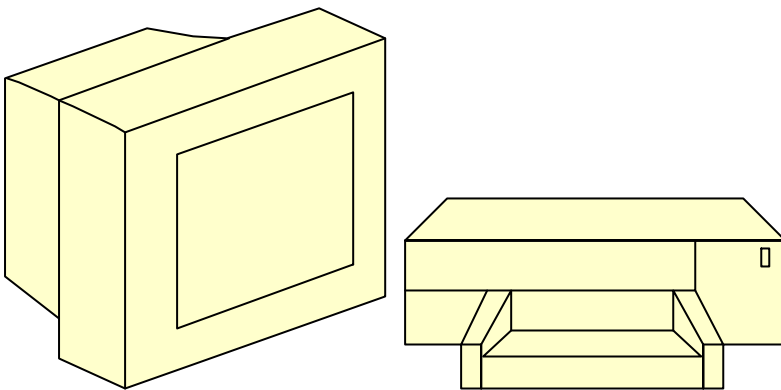


Fig 1.3 Showing the Output Devices.

- STORAGE SYSTEM : This System contains the devices that store the data of the computer system.

- Two types of Storage Devices :

1. Primary Storage Device It has RAM and the HARD DISK.

These Storage Devices hold and stores the contents of the computer system.

- o RAM (RANDOM ACCESS MEMORY) : It holds the data temporarily.
- o HARD DISK : It stores the data of the computer system in the form of pictures, graphs, videos, diagram etc.

2. Secondary Storage Device It has CD –ROM , Memory Card , Pen Drive etc.

It also stores the data of the computer system in the form of pictures, graphs, videos, diagram etc.

➤ HARDWARE AND SOFTWARE :

1. HARDWARE : The parts of the computer system that can be touched.

For Example : \_Input Unit    The Processing Unit    The Output Unit etc.

2. SOFTWARE: It is the set of the programs which makes the computer system to work.

For Example : MS Paint, MS Word , LOGO etc.

**EXERCISE**

**[A] FILL IN THE BLANKS**

CD- ROM , CPU , PENDRIVE, PROGRAMS, MS WORD, PRINTER

- 1) \_\_\_\_\_ is a type of output device.
- 2) \_\_\_\_\_ is a processing unit.
- 3) \_\_\_\_\_ and \_\_\_\_\_ are the storage device.
- 4) Software is the set of \_\_\_\_\_.
- 5) \_\_\_\_\_ is a type of Software.

**[B] SORT THE DEVICES UNDER THE CORRECT COLUMNS.**

SCANNER , PRINTER , MONITOR , KEYBOARD , MOUSE , SPEAKER ,  
JOY STICK , MICROPHONE.

| INPUT DEVICES | OUTPUT DEVICES |
|---------------|----------------|
| 1.            | 1.             |
| 2.            | 2.             |

3.

3.

4.

4.

5

5.

**[C] WRITE 'H' FOR HARDWARE AND 'S' FOR SOFTWARE.**

I. CD – ROM

II. MS WORD

III. MS PAINT

IV. MOUSE

V. LOGO

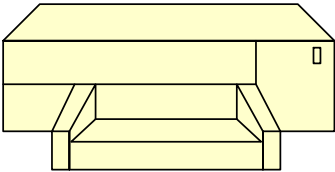
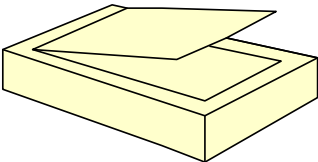
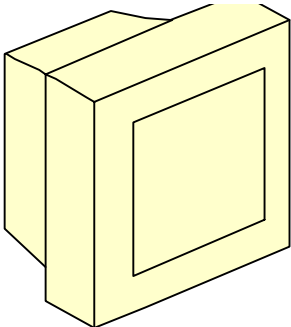
VI. PEN DRIVE

VII. PRINTER

VIII. KEYBOARD

IX. MONITOR

[D] IDENTIFY THE DEVICE.

| DEVICE                                                                                 | NAME | TYPE OF DEVICE |
|----------------------------------------------------------------------------------------|------|----------------|
| 1.    |      |                |
| 2.   |      |                |
| 3.  |      |                |
| 4.  |      |                |

[E] Answer the followings :

1. Name the three units of the Computer System .
2. What is Processing Unit ? Give Example.
3. What is Storage System ?
4. What is Secondary Storage device? Give Examples.
5. What is Hardware? Give Examples
6. Name the Primary Storage Devices.
7. Expand the term RAM.
8. What is Hard disk?

### PRACTICAL JUNCTION



1. VISIT YOUR COMPUTER LAB AND MAKE A LIST OF ITEMS PRESENT THERE.

| HARDWARE | SOFTWARE | INPUT DEVICE | OUTPUT DEVICE |
|----------|----------|--------------|---------------|
|          |          |              |               |
|          |          |              |               |
|          |          |              |               |
|          |          |              |               |

## CHAPTER 2

### INSIDE THE CPU

CPU is a processing unit of the computer system. There are the different parts of the CPU, commonly known as the CPU CASE or CABINET. It is a box like structure.

INTEL is the most popular company which manufactures the CPU chip. This CPU chip is fitted inside the CPU CASE.

#### ➤ Parts of the CPU

CPU Consists various parts such as ---

- SMPS FAN
- RAM
- HARD DISK
- MOTHER BOARD
- MICROPROCESSOR CPU CHIP

#### ➤ CPU case is designed with Three main Units ----

- o ALU UNIT : It performs all mathematical calculations.
- o CONTROL UNIT : It controls all the activities which are done by the computer system.

- o MEMORY UNIT : It contains primary memory or main memory such as ROM (READ ONLY MEMORY) and RAM (RANDOM ACCESS MEMORY)

CPU also contains Hard Disk in the form of secondary storage device.

- MOTHER BOARD : This board contains all the parts of the CPU.

All these parts are fitted onto the motherboard such as: Hard Disk , Microprocessor , RAM , ROM , cables etc.

- MICROPROCESSOR (CPU) : Microprocessor has CPU chip which is placed under it.

Microprocessor contains a moving fan which is fitted onto it.

- SOME MORE SECONDARY STORAGE DEVICES :



FLOPPY DISK

1.44 MB

CD –ROM

720 MB

USB – PENDRIVE

16 GB

**EXERCISE**

**[A] FILL IN THE BLANKS**

CONTROL UNIT, ALU, RAM, MOTHER BOARD, CD -ROM

- 1) \_\_\_\_\_ controls all the activities done by the computer system.
- 2) \_\_\_\_\_ is an example of the secondary storage device .
- 3) \_\_\_\_\_ does all the mathematical calculations of the computer.
- 4) \_\_\_\_\_ contains all the parts of the CPU case which are fitted onto it.
- 5) \_\_\_\_\_ is a type of primary memory.

**[B] MAKE A LIST OF PARTS OF THE CPU CASE.**

- |          |          |
|----------|----------|
| 1) _____ | 4) _____ |
| 2) _____ | 5) _____ |
| 3) _____ |          |

**[C] STATE TRUE OR FALSE.**

- |                                                         |         |
|---------------------------------------------------------|---------|
| 1. CD-ROM is the primary memory.                        | [     ] |
| 2. USB Pen drive is a part of the CPU case.             | [     ] |
| 3. ALU comes under the memory unit.                     | [     ] |
| 4. SMPS fan is fitted inside the CPU case.              | [     ] |
| 5. Microprocessor is manufactured by the INTEL Company. | [     ] |

**[D] MATCH THE FOLLOWINGS.**

**COLUMN A**

- i. CPU Case
- ii. CPU chip
- iii. ALU
- iv. CU
- v. CD ROM
- vi. RAM

**COLUMN B**

- a. controls computer's work
- b. Primary memory
- c. Secondary memory
- d. INTEL
- e. mathematical calculations
- f. cabinet

**[E] Answer the followings :**

1. What is CPU ?
2. Name the Company which Manufactures CPU Chip.
3. Name some components of the CPU Case.
4. Name the three Main units of the CPU Case.
5. What is Mother Board ? Name its Components.
6. Explain Microprocessor,
7. Draw the figure of the RAM , Hard Disk and the Microprocessor.



**PRACTICAL JUNCTION**

1. Explore all the parts of the CPU case in your lab.
2. Identify the part of the MOTHER BOARD.