

# Holy Cross School Agartala

## Dept. of Computer Science

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### CLASS VII

#### COMPUTER HARDWARE AND COMPONENTS

(UNIT -I AND II )

1. What is hardware?

Ans: Hardware is the term given to the machinery itself, the various components and equipments which are essentially needed for the system. It also refers to all the physical devices of the computer system. Example: - printer, monitor.

2. What is software?

Ans:-The set of instruction that gives the hardware to perform a specific given task is known as software. Example: - MS\_Paint.

3. Difference between hardware and software?

Ans:-

Hardware	Software
i) Hardware refers to the various physical components and equipment of a computer.	i) Software refers to all kinds of programs associates with a computer system.
ii) It can be touched and made visible. It is independent.	ii) It cannot be touched can be felt. It is dependent on hardware.

4. Define ports.

Ans:- A computer port is a connection point between a computer and an external or internal device.

5. What is a Modem?

Ans:- The term Modem stands for Modulator/Demodulator. It is a device that converts the digital information to analog and vice versa. It is mainly needed for transmission of data.

6. What is a printer?

Ans:- A printer is an output device which is used to print text or images on a sheet of paper. The output given by a printer is known as hard copy.

7. Define different types of printer.

Ans:- a) **Impact printer**:- This types of printer use a print head to strike an ink ribbon to give an impression on a sheet of paper. Example:- Dot Matrix printer.

b) **Non-impact printer**:- This printer don't use print head to strike an ink ribbon to give an impression on a sheet of paper. Example: - Inject printer.

8. Write the primary function of computer system.

Ans:- The functions are:

- It executes user written or user designed programs.
- It holds all the components of a computer together and protects the sensitive electronic parts from outside elements.
- It performs user defined data manipulation including arithmetic and logical operations.

9. Short Note on Keyboard.

Ans:- The keyboard is considered as the main input device of the computer. It looks like a type writer but has added keys that provides many different features and enhancement. A keyboard allows us to input letters, numbers and other symbols into the computer. There are different types of keyboard such as: a) Wired. b) Wireless. c) Multimedia. d) Ergonomic.

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**10. Write short note on SMPS.**

Ans:- SMPS stands for Switch Mode Power supply. It is an electronic circuit that provides power supply to the computer. It also stabilizes the voltage.

**11. Write short note on Mother Board.**

Ans:- The mother board is the main circuit board of the computer. A circuit board is a board on which printed or integrated circuits are fixed. The integrated circuits are the internal hardware components that are connected to the motherboard.

**12. Write short note on CPU.**

Ans:- A processor or CPU is a small chip located inside a computer. It performs operations depending upon the instruction given to it. The CPU has three main components-

- i) ALU (Arithmetic and Logical Unit)
- ii) CU(Control Unit),
- iii)MU(Memory Unit).

**13. What is ALU?**

Ans:-The computer performs all arithmetic and logical operations through this unit. An arithmetic operation includes addition, subtraction, multiplication, division and logical operation (all types of comparison).

**14. What is control unit?**

Ans:-The control unit controls each and every part of the computer along with the peripherals. It retrieves data and instructions from the memory and send the commands to the various part of the computer system.

**15. What is Memory Unit?**

Ans:- The data and the instruction which are entered in the computer system through the input units have to be stored inside the computer before the actual processing starts. It provides the space for storing data and instruction, space for intermediate results and also space for final result.

**16. Write the functions of CPU.**

Ans: i) It stores the data in the memory while processing.  
ii) It processes the data to give meaningful result.  
iii) It controls each and every operation of the computer including the operations of all its peripherals.

**17. Write short note on hard disk drive.**

Ans:- A hard disk drive is a hardware device that contains the hard disk of a computer. It is a storage device fixed permanently with in a computer. It is used to store data on a computer. It can store large amount of data in a small space.

**18. What is the use of ::**

- a) **Infrared port:** Infrared port is used to send and receive infrared signals from other devices over a relatively short distance. It is used for wireless communication.
- b) **Parallel port:** Parallel are used to send or receive 1 byte of data at a time. This is mainly used to connect printer or scanners.
- c) **Blue-Ray:** Blue -Ray is used to store movies and multimedia six times more than DVD and better quality.
- d) **Floppy Disk:** Floppy Disk is a flexible plastic disk coated with magnetic material on which data and programs can be stored for later retrieval.
- e) **Storage device :** Storage device are devices whose main function is to store data and information.

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19. **Difference between RAM and ROM.**

Ans :

RAM	ROM
1. Data or instructions can randomly be read as well as written into it.	1. The stored information can only be read but new information cannot be written into it.
2. Any information stored in it is lost when the power supply is switch off.	2. The information in ROM remains intact even the power supply is off.

20. **Difference between Primary memory and secondary memory.**

Ans :

Primary Memory	Secondary Memory
1. It is the main memory of computer System.	1. It is the auxiliary memory from where stored data can be retrieved.
2. Data and instructions get erased as soon as the computer is switch off.	2. Data and instructions are stored for future use, even when the computer has been switch off.

21. **Define Memory.**

Ans: Memory is the basic unit of a computer where it can store data and instructions.

22. **Short Note on Secondary Memory Device.**

Ans: Secondary Memory Device are the units where data or information can be stored for future use. The secondary storage has a higher storage capacity as compared to the main memory. Example: Hard disk , Pen drive etc.

23. **What is the use of USB port?**

Ans: USB port is specially designed to connect printers , plotters , mouse, joy stick etc with single plug arrangement. It avoids pin configuration of the ports.

24. **Short Notes on Serial port.**

Ans: Serial ports are used to supply data serially i.e. bit by bit. It uses single wire for communication. This port takes much time to data transfer.

25. **What is System software?**

Ans : System software is a set of one or more programs designed to control the operations of a computer system. Example : Operating System.

26. **What is Application Software?**

Ans: Application software is a set of one or more programs designed to carry out specific tasks such as documents , presentations etc.

Example: MS\_Paint, WordPad, Notepad etc.

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