



CLASS :VIII

Subject: Computer

Date: 30 /04/20

Topic: Computer System

Time Limit: 1hour

Worksheet No.:2

[Read the theory portion thoroughly. Then copy the questions and solve them on a sheet of paper date wise. Keep the worksheets ready in a file to be submitted on the opening day.]

Concept :

Firmware : With advancement of technology software is also being made available on many ROM (Read only memory) chips. These RO M chips can easily plug into the computer system and are known as firmware. This software is cost effective and used for special type of instructions. Initially only system software was supplied in firmware containing different programs to run a few applications. If anyone tries to remove the seal from the software then the component itself gets destroyed.

Data : Data are raw facts provided to the computer which are to be processed. The data may be number sentence pictures, sound etc. Data items are required to solve a problem by using a computer.

Instructions: A computer does not have a brain of its own It needs directions to perform specific task. Instructions are the directions given to the computer so that it can operate on data according to the instruction given.

Information :Data processing in computer results in well defined and organised outcome known as information. In other words Information is processed data.e.g. If we write $2+3=5$, then 2 and 3 is data , + is instruction and 5 is information.

CPU:In a computer system all major decisions are taken by central processing unit(CPU).It is integrated with microprocessor and the memory unit .The microprocessor consists of an arithmetic logic unit, control unit, which regulates the functions of various devices in a computer system. The mother board is an integral part of the cpu and contains microprocessor and memory unit. Thus CPU includes three main parts viz arithmetic logic unit, control unit and memory unit.

In a computer system all decisions are taken by CPU and thus it is **called brain of the computer.**

Exercise :

- 1) What is firmware? Why ROM is a firmware.
- 2) How firmware is different from software and hardware.
- 3) When firmware gets destroyed?
- 4) What is data? How they are different from information?
- 5) Why instructions are necessary?

- 6) Write short note on central processing unit. Why it is called brain of the computer?**
- 7) What is microprocessor?**
- 8) What is motherboard?**