



STEPPING STONE
SCHOOL (HIGH)

CLASS : VIII

Subject: Computer Application

Date: 19/05/20

Topic: Moving ahead with computer system.

Time Limit: 1 hour

Worksheet No. :4

[Minutely go through all the topics given below.]

Primary memory of two types: ROM and RAM.

ROM (Read only Memory) :

The data and instruction stored in ROM area can only be retrieved out for any application in the users program but nothing can be written or modified in it. Basically the manufacturers program ROM, where they store system commands library function and other programs.ROM is available in various forms which are as follows

PROM (Programmable read only memory) : It t is an integrated circuit chip which has facility to be programmed once.After storing program or data we cannot delete or modify the content each PROM chip contains a window on its surface where a fuse is connected you can remove a fuse after storing a program in it. Hence it gets converted perfectly to ROM type.

EPROM (Erasable Programmable Read only memory): This type of ROM has the facility to write and erase the contents as many as required by the user. The data and instruction stored in the chip can be erased by supplying a beam of ultra violet rays through the window available on its surface.

EEPROM (Electrically erasable programmable read only memory) : It is similar to EPROM . It is also called electrically alterable read only memory. It is erasable as well as programmable but the data items get deleted only if electrical pulses are passed through the window present on its surface.

RAM (Random Access Memory): It is a volatile memory i.e. the contents get erased as soon as the power supply is off. The application program i.e. the program and the data supplied by the user get stored in the area of primary memory. After execution is over the contents are either shifted to the secondary memory for permanent storage or deleted from it.

RAM is available in two forms: Static RAM and Dynamic RAM.

Static Ram

Static RAM is composed of registers which loses the contents as supply source is switched off.

Dynamic Ram.

Dynamic RAM is composed of capacitors , which are charging and discharging in nature .Once the data has been stored in dynamic RAM the capacitors get charged automatically.If you switch off the computer then also this memory remain alive for some time unless all the capacitors get discharged.

Difference between static and dynamic RAM.

Static Ram

- i) The access time of static RAM is longer as compared to static RAM.
- ii) It does need to be periodically refreshed as it uses integrated circuit.

Dynamic Ram

- i) The access time of dynamic RAM is short.
- ii) It uses capacitors to store the bits ,so it must be periodically refreshed.