

ASSIGNMENT # 04

Date 9-10-18

Q₁ Describe the types of memory chips with diagrams?

Ans: MEMORY CHIPS :-

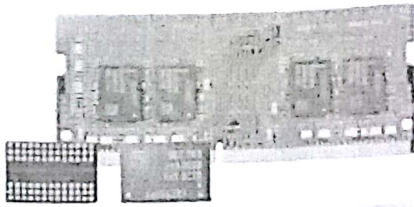
A memory chip is a small computer device used to store information, data or a program that is run on a computer or other electronic devices that run like a computer. There are several different types of memory chip given below:

① DRAM :-

Dynamic Random Access Memory chip or DRAM chips is a memory cell requiring refreshing because it transits only single lines of memory. A DRAM chip has numerous small capacitors that contain each memory bit. DRAM chips do not hold charge and need to be refreshed in order to keep the content on the chip from being lost. It is commonly referred as volatile memory chip because it lost the memory after power off. It is used in some computers that are constantly hooked to power supplies.

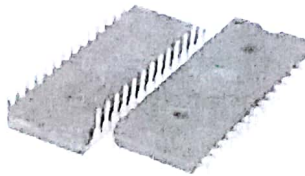
② SRAM :-

Static Random Access Memory chip. SRAM chip are non-volatile memory chip and do not required refreshing or power to keep memory intact. SRAM chip are most common in portable battery powered devices like laptop, cell phone etc.



(3) PROM:

PROM chips are programmable read only memory chip that differ from other programmable read only memory chip because they can only be written to once. PROM chips cannot be erased with UV light or electronically.



④ EPROM:

EPROM chips are erasable programmable read only memory. These types of memory chips can be erased when they are exposed to UV light. When erased, then can be programmable to contain a new set of data or reused to house a different program. A variation of this type of memory chip is EEPROM which can be erased by electronically or UV light (ultra-violet).



Q2 Name three types of printers and list advantages and disadvantages of each with diagram.

Ans. TYPES OF PRINTERS:

- ① Dot-matrix printer
- ② Ink-jet printer
- ③ Laser printer.

✓

DOT-MATRIX PRINTER:-

ADVANTAGES:-

It can print on multi-part forms or carbon copies.

It takes low printing cost per page.

It can be used on continuous form paper, useful for data logging.

It is reliable and durable.

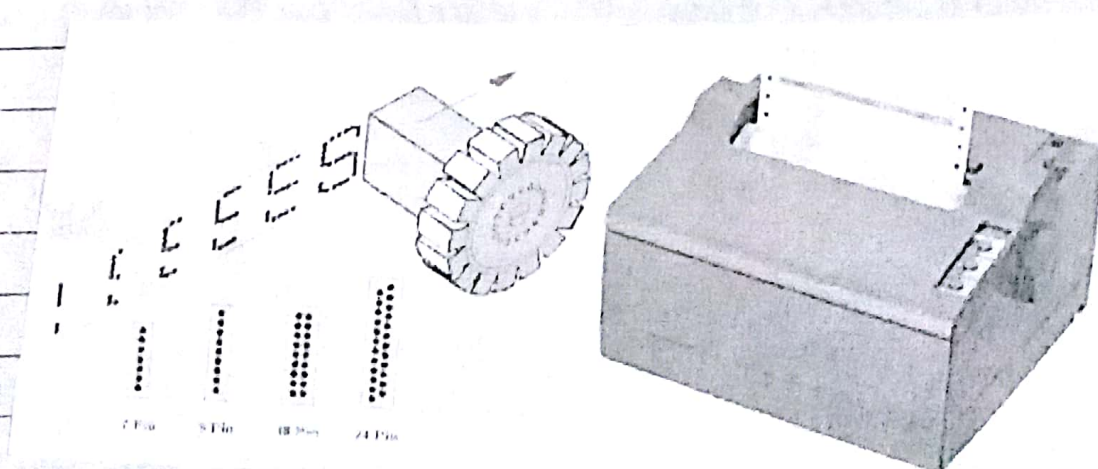
DISADVANTAGES:-

It is noisy.

It has limited print quality.

It has low printing speed.

It has limited colour printing.



INK-JET PRINTER:-

ADVANTAGES:-

It takes low cost.

It gives high quality output, capable of printing fine and smooth.

It is capable of printing vivid color, good for printing pictures.

It is easy to use and also reasonably fast.

It is quicker than dot-matrix printer.

DISADVANTAGES:-

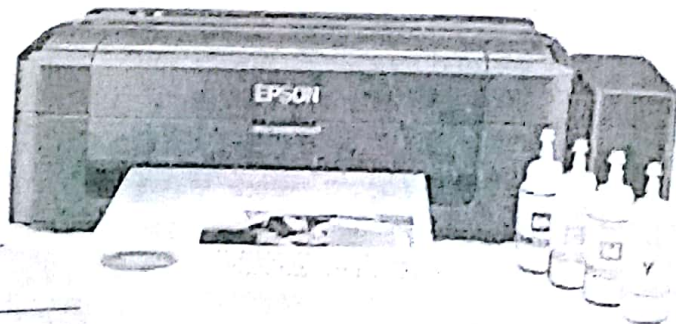
Print head is less durable, prone to clogging and damage.

Exchange Expensive replacement ink cartridges.

Not good for high volume printing.

Printing speed is not fast as laser printer

Cannot use highlighters markers on inkjet printouts.



③ LASER PRINTERS:-

• ADVANTAGES:-

- ① Speed at printing. Print page at a time very fast rate.
- ② It gives potential output.
- ③ It is highly optimise.
- ④ Print it self where printing done without any supervision.

• DISADVANTAGES:-

- ① It is costly.
- ② It takes lot of space.
- ③ Because of cost it is not very economical.
- ④ It is dangerous to atmosphere as well as health.

