

Computer Storage Devices



Data and information are in different forms such as documents, photos, videos, animations, voices and sounds.

That data and information can be stored in computer storage devices. Similarly, computer programmes which give instructions to the computer can be stored too

Examples for data, information and programmes that can be stored in storage device

documents



voice & sound



video & animations



photos



word processing software



operating systems



Computer Storage Devices

Devices which are used to store data, information and programmes that belong to computer are known as computer storage devices.

Computer storage devices can be divided into several parts, according to their manufacturing technology.

1. Magnetic Media Devices. Eg: Hard Disk
2. Optical Media Devices Eg: Compact Disk
3. Solid State Media Devices Eg: Pen Drive

Functions and technology of each of the above media devices are different.



Magnetic Media Devices

- Magnetic tapes" floppy disks and hard disks are known as magnetic media devices. They consist of a magnetic surface or a magnetic tape.

• Hard Disk

The hard disk consists of a magnetized platter and a moving metal head. There are two different types of hard disks, internal hard disks and external hard disks.

A large amount of data can be stored permanently in the internal hard disk. It is a magnetic media device which is in the system unit. The external hard disk is a portable storage device. It can be chosen in various capacities such as 500 GB, 1 TB, 2 TB.



- Magnetic Tapes

A magnetic tape is a thin plastic tape covered with a magnetic substance. It is used for recording sounds, images or computer data etc. The magnetic tape which was used often in the past has now become obsolete.



- Floppy Disk

A floppy disk is a magnetic media device that can be used to store small files. It contains a capacity of 1.44 MB. It is used to carry data because it is an external storage device. But is becoming obsolete. At present, there are disks which are produced by using the same technology used to produce the floppy disks such as zip disks and jazz disks. The capacity of these disks is greater than that of the floppy disks. But they are not used often.



• Optical Media Devices

In optical media devices, data is read and written by laser beams. Optical disks are of several types. They all are portable.

• CD - Compact Disks

There are two types of disks such as recordable (CD-R) and rewritable (CD-RW). The capacity of these disks are 650MB and 700MB.



• Digital Versatile Disks (DVD)

They are of two types; DVD-R (data can be written once) and DVD - RWC (rewritable). The capacity of these disks are 4.7 GB, 8.5 GB, 15 GB and 30 GB.



- **Blue Ray Disks**

In these disks, data can be stored on several levels as 25 GB on each level.



- **Solid State Media Devices**

Solid state media devices are a type of device which write and read data electronically at a high speed. As they do not have moving parts as in hard disks and compact disks to write and read data, they are solid state media devices.



Pen Drive



Memory Card



Activity

Consider the following storage devices.



Pen drive



magnetic tape



Solid state Drive



DVD



HDD



Blue ray disk

Correctly insert the above devices into following table.

Magnetic media devices	Optical media devices	Solid state media device
		LIVE LIVWORKSHEETS