Magnetic Memory

the magnetic memory is permanent memory. It is not volatile at is und as a secondary in computer system. The following types of magnetic memory are und

(1) Hard derk. (ii) Floppy disk (iii) Magnetic tape.

Hard DISKS !- Hard disks are und as secondary memory for mass storage of information permanently. A hard disk is made of aluminium bur with thin coating of magnetic material (iron-oxide) over it. Disital information is stored on the magnetic easting (film) by applying current pulses of suitable passity to the magnetizing coil of the read/write head . The Logic 1 or o depends con fac direction of magnetisation of very small area of the magnetic folm which Comes under the read write head.

Track

Ahard dock is a suspace device. 2t's Surface is divided into a number of concentric tracks, and each track is divided into a number of sectors as shown i'm figure Tracks and sectors Lonot have physical existence on the Surface of a disk. They are Logical things. To increase the storage capacity, several hard distes called Phatles, are mounted on a common drive to form disk pack. Data bits are stored serially on each track.

Seek time: - The time required to move the readjunte head to the specified track is called seek time. This depends on the initial position of the head relative to track specified in the address.

Latenty Time !-Laterey Time ! - The Katurey time is the time required to somte the specified sector under the head. Access Time: - The Sum of seek time and Laterey time is called access time.

Some features of hard disk drives are

Storage capacity of hard disk drives: a few 613-21000 (08)

Storage capacity per platter: a few 613-500 (613)

Speed: 3600 7 pm - 150007 pm

Data transfer rate: 25-100 MB/s

Access time: 5ms-20ms:

Disk Partitioning! - Disk partitioning or alish sliving is
the creation of one or more regions on secondary
storage, so that each region can be managed separately.
These regions are called partitions.