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الدرس: ٤ الشريط المغناطيسي والقرص الصلب الموضوع: الشريط المغناطيسي والقرص الصلب الدقيق المادة: م.د.نادر الخفاجي المرحلة:الثالثه
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:Magnetic tape

## ?What is magnetic tape and who is it made of

Manufacturing is a subcategory of industrial paper coating, which includes coating of foil and plastic film. In the manufacturing process, a mixture of magnetic particles, resins, and ..solvents is coated on a thin plastic

#### ?What is magnetic tape in computer

A magnetic tape, in computer terminology, is a storage medium that allows for data archiving, collection, and backup. At first, the tapes were wound in wheel-like reels, but then cassettes and cartridges came along, which offered more protection for the tape inside

أسئلة أخرى

# ?What is magnetic disk in computer system

Magnetic disks are flat circular plates of metal or plastic, coated on both sides with iron oxide. Input signals, which may be audio, video, or data, are recorded on the surface of a disk as magnetic patterns or spots in spiral tracks by a recording head while the disk is rotated by ... a drive unit

## ?How does a magnetic hard disk work

The hard drive contains a spinning platter with a thin magnetic coating. A "head" moves over the platter, writing 0's and 1's as tiny areas of magnetic North or South on the platter. To read the data back, the head goes to the same spot, notices the North and South spots flying by, and so deduces the stored 0's and 1's

### Differences between Magnetic Tape and Magnetic Disk

Magnetic Tapes and Magnetic Disks are the types of magnetic memory. Both are called non-volatile storage and used to store data

Magnetic tape contains thin plastic ribbon is used for storing data. It is a sequential access .memory. So the data read/write speed is slower. It is mainly used for data backups

Magnetic Disk contains circular disk made of metal or plastic. Both sides of the disk are usually used for storing data. The disk is coated with magnetic oxide. The disk is divided into multiple concentric circles known as tracks and tracks are divided into sectors in which data ... are stored

The metal or plastic circular disk having coating of magnetic oxide serves as the key . component of Magnetic disk memory

The cost of magnetic tape is less. The cost of magnetic disk Is high. 2

Reliability of magnetic tape is less. Reliability of magnetic disk is more. 3.

Access time for magnetic tape is more. Access time for magnetic disk is less. 4.

Data transfer rate for magnetic tape is comparatively less. Data transfer rate for magnetic .5. disk is more

Magnetic tape is used for backups. Magnetic disk is used as a secondary storage. 6.

In magnetic tape data accessing rate is slow. In magnetic disk data accessing rate is high or .7.

In magnetic tape data can't be updated after fed-up of data. In magnetic disk data can be .8. updated

.Magnetic tape is more portable.Magnetic disk is less portable.9.

Magnetic tape contains reels of tape which is in form of strip of plastic. Magnetic disk .10 .contains round platters which is made up of plastic or metal

track is kept for parity check in magnetic tapes so it is not used for storing data. In 11.1 magnetic disk, the topmost surface of top plate and bottommost surface of last plate in a platter are not used for storing data as scratching issue can be there for both surfaces

In magnetic tape for data recording, magnetic material is coated on only one side of the .12 tape. While in magnetic disk for data recording, magnetic material is coated on both side of .the platters

Tape drives are used for reading and writing of data from magnetic tapes. Disk drives are .13 .used for reading and writing of data from hard disks

The storage components of magnetic tapes, are in contact with external devices in tape .14 drives. Magnetic discs are not touched by any external devices 1S. No. Magnetic Tape Magnetic Disk

Plastic ribbon serves as the primary component of magnetic tape memory. The metal or .1 plastic circular disk having coating of magnetic oxide serves as the key component of .Magnetic disk memory

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Hold less data as compared to magnetic disk. Capacity to hold more data per unit volume. .15 .But these need to be kept in a vacuum in order to reduce air friction

Storing of data takes place in the form of records in magnetic tapes that are further .16 organized in blocks. Storing of data takes place in the form of files, folders or directories on the disk5. Hold less data as compared to magnetic disk. Capacity to hold more data per unit .volume. But these need to be kept in a vacuum in order to reduce air friction

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