Magnetic media is any storage medium that utilizes magnetic patterns to represent information .

Examples are floppy disks and hard-drives

Advantages

Very fast access to data

Data can be read directly from any part of the hard disk

Some are very cheap e.g floppy disks

Most of the devices store very large amounts of data .

Disadvantages

Data can be altered by magnetic fields thus mechanical problems

They gradually loose their charge over time hence data can be lost

Regular crushes can damage the surface of the disk hence the loss of data.

UTS-Unshielded Twisted Pair

Latency –delay before the transfer of data begins following an instruction for its transfer

Optics fibre networks

Connection between two computers using fiber optics

Attenuation –diminishing

ADSL--Assymetric digital subscriber line

Connection btwn the telecommuncations company to the lines in the service subscribers home or office.

Simplex-radio tv

Full duplex telephone

Half duplex citizens band radio used police people walkie talkie

Digital subscriber line aceess multiplexer dslam

Hard handoff requires the users connection to be entirely broken with an existing base station before being swiched to another base station

Soft handoff refers to the overlapping of repeater coverage zones so that every cell phone set is always well within the range of atleast one base station

In some cases a mobile set can receive a signal from base station and transmit to another base station

Roaming refers to the extending of connectivity service in a location that is different from the home location where the service was registered .

Ensures that the wireless device stays connected even

In roaming we are away from our base station so signal strength is very low so our cellphone will try to connect to the nearest base station which aint our home base station

Pros of internet over cable

Cable is faster than adsl..data transmission

Reliability and speed remain the same regardless of the distance

Low Latency

Variety of bandwidth

cons

Its affected by traffic through cables hence low speeds

Sometimes costly

Poor accessibility

Byte stuffing/ character stuffing

is the process of inserting a special escape byte before each FLAG In data