Exercise No: 2

Date: 34.07.24

Aim: exploses of the locality of the seed of the study of different types of Network cables. a) Understand different types of network cables

Types of network cables.				
Cable type	Category	Max. data Fransmission		Appluse
UTP	Category 3	10bps	Advantages: - cheaper cost	10 Base-T Etherne
	Category5	Up to 100 Mbps	· Easy to install disadvantages:	fast Ethernet, Gugabit Ethernet.
	Category 5e	IGbps	• More prone to EMI - electromag interference.	Fast Ethernet, Gigabit Ethernet
STP	category 6,	10 Gibps	Advantages: Shielded: Forster thanu Less susceptible	data centres.
SSTP	Category 7	10 Gbps	Disadvantages  Expensive  Greater  Installation	Gügabit Ethernet 10G Ethernet 100 m)
Coaxial Cable	RG-6 RG-59 RG-11	10-100 М Брз	Advantages:  · High bandwid  · Low Loss  · Immue to  interference.  Disadvantages  · Cost  · Size is bulk	network High speed in ternet Connections
fibre phics cable	single mode Muti mode	100 Gibps	Advantages:  High speed  High securit  Long distance  Disadvantages  Expensive	Maximum ty distance of e fibre optics

## Student Observation:

- 1) Crossovercable: transmit and receive voires are cossed; used to connect two similar services.

  Straight Cable: same viring standard on both ends; used to connect different devices like

  PC to switch or router.
- 2) Cross over cable.
  - 3) Straight cable.
- 5) Under standing: Involves avranging wires.

  Challenges: Correct wire arrangements

  shipping without damage

  Output: Successfull cables enable enetwork

  connections.

Result:

Thus the different Network cables have been studied.