EXPNo: 2 Date: 21/7/2025 study of different types of network cardes.

Aim: study of different types of network

captes.

1. Unshield Twisted pair (UTP) cable

2. Shielded Twisted Pair (STP) cable

3. Coaxial cable

4. Fibre Optic Cable

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cable Type	Category	Maximum Data Transmissio		application
wa.	category 3	10 bps 1	Advantages:	10 Base T
UTP	Category 5	upto 100 Mbps	** easy to install  Disadvantages:-  ** More prone to  EMI	Fast Ethurë Gigabit Ethernel
	category 5e	al Giphs		Naghu
STP	category 6.6a	10Gbps	Advantages:- *Shielded	gigasit_
SSTP	category 7		* Faster than UTP  Disadvantages:-  * Expensive  * Greater installation	Ethernet 109 Ethernet widely used in data centers
Coarial cable	RG-6 RG-59 RG-11	1314 54 3	Advantage ::  * High bandwidth  * Immune to inference  * Low Loss  Disadvantages:  * Limited distance  * cost  6 size is bulky	Speed of signals is soom  Television Network High speed Internet

fibre optics	single mode 1 multi mode	1000Ghps	· high speed · high bandwidth · high security	Maximum distance of fibre optic cable is albund 100 meters
			tone proposed and	

## STUDENTOBSERVATION

1. Diffuence between cross cable and cable?

A straight cable connects différent while cross cable connects dimilar devices by swapping transmit.

- 2. Which type of cable is used to connect two
  PC ?
  - cross cable is used to connect two PC
- 3. Which cattle is used to connect a courter to PC?

  Straight Cattle is used to connect a courter to PC.
- 4. Find the category of twisted pair calles used to connect the 1c to Network socket?

connect the PC to network socket.

Write down understanding challenges baced and output received?

- -> Lealnt the codes and wiring standards
- -> Difficulty in arranging wires in correct order
- > successfully made working castles that connected devices and enabled Proper returned communication.

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Hence, the different types or network cables have been successfully studied.

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