Ex: No: 2

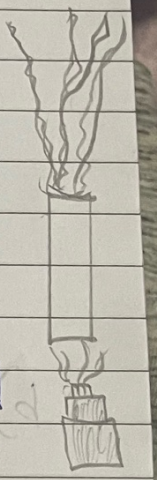
DATE: 28/07/24

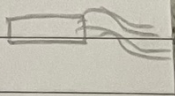
Study of different network cables.

Aim:

Study of different types of Network cables.

Cable type	Category	Max data Transmission	Advantages	Application
	3	10 bps	• cheaper	10base-T ethernet
UTP	5	upto 100mbps		Fast ethernet
	5e	1Gbps	• Prone to EMI	Fast ethernet
STP	6, 6a	10Gbps	• Shielded	Gigabit ethernet
SSTP	7	10Gbps	• Expensive	Gigabit ethernet
	RG-6 RG-5A RG-11	10-100 Mbps	• High bandwidth • Immune to interference	Television Network
fiber optics	Single mode Multimode	100 Gbps	• High speed • Expensive	Max distance is 100 miles





Coaxial Cable:

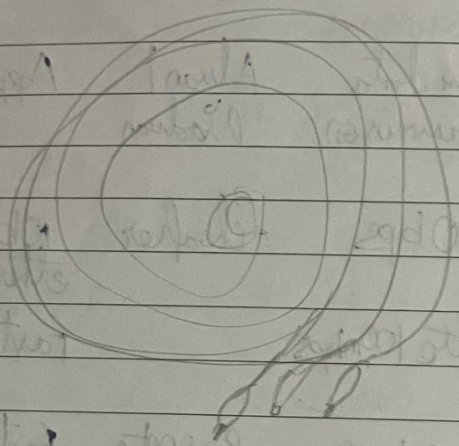
1)

Fiber optics cable:

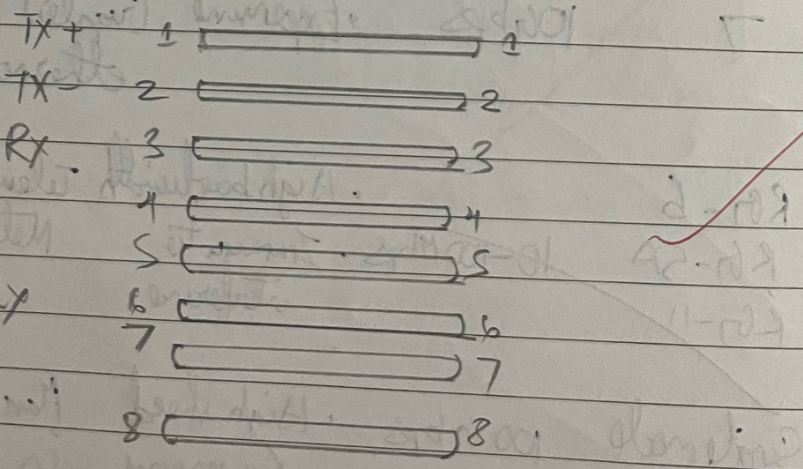
2)

3)

4)



b) Make two RJ45 plugs



Student oles:

1) Straight cables are used for connecting different devices.
2) Crossover cable
3) Straight
4) Cat 5e, cat 6, C cat 6A

RESULT:

Thus the different types of cables and making of them was studied.

23/7/24