

Experiment 7

Q1 Give the use of transmission media, crimping tool,
→ straight cable, crossover cable & connector.

- Transmission media: It transmits information from source to the receiver.
- Crimping tool: It's used to crimp or connect a connector to the end of cable.
- Straight cable: It's used to connect computing devices together directly.
- Crossover cable: It's used to connect two devices of the same type.
- Connector: It defines the arrangement of individual wires when attaching connector to cable (RJ45). Provides an entry point for network devices such as computers, hubs & routers.

Q2 List out the types of twisted pair cables
→

- shielded twisted pair cable
- Unshielded twisted pair cable

Q3 Give the name of the connector used in cable
→ RJ45 is the connector used in hub

Q4 Which tool is used to test network cable
→ A cable tester is an electronic device used to verify electrical connections in a shielded cable

Q5 Give the meaning of TX & RX used for connections
→

- ① TX & RX are abbreviations for transmit & receive.
- ② TX is transmitting port & RX is the receiving port.

Q6 What is the difference between straight cable & crossed cable w.r. to order of wires

→ straight cable is used to connect different types of devices such as a computer to a switch while crossover cable is used to connect similar devices, like two computers or two switches

key difference is in how wires are arranged which determine the functionality of cables.

Q7 What is the meaning of RJ?

→ Fullform of RJ is Registered Jack. It is standard configuration of the telecom network interface.

Q8 Give the purpose to have network toolkit in a network lab

→ A network toolkit typically refers to a set of software & hardware tools used for troubleshooting, network maintenance while a network lab is a controlled environment for research & experimentation.

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