Assignment 1

21 Explain the specification and functionality of RT 45 connector, switch, cable tester, viimping tool, Cat 5 cable

RJ 45 connector: Many 11 and

Ans

8 pin RT-45 connector through hole PCB mount socket and compatible with all CAT and UDP cable. Commonly used in ethernet connection. Transmit data over long distance. Transmit data in noisy envisroment and supports over ethernet.

Switch:

Switch are networking devices operating at layer 2. They connect devices in a network and use switching to send, succeive or forward data packets. Performs necessary checks to send data to appropriate device. Supports unicast, multicast and broadcast communications.

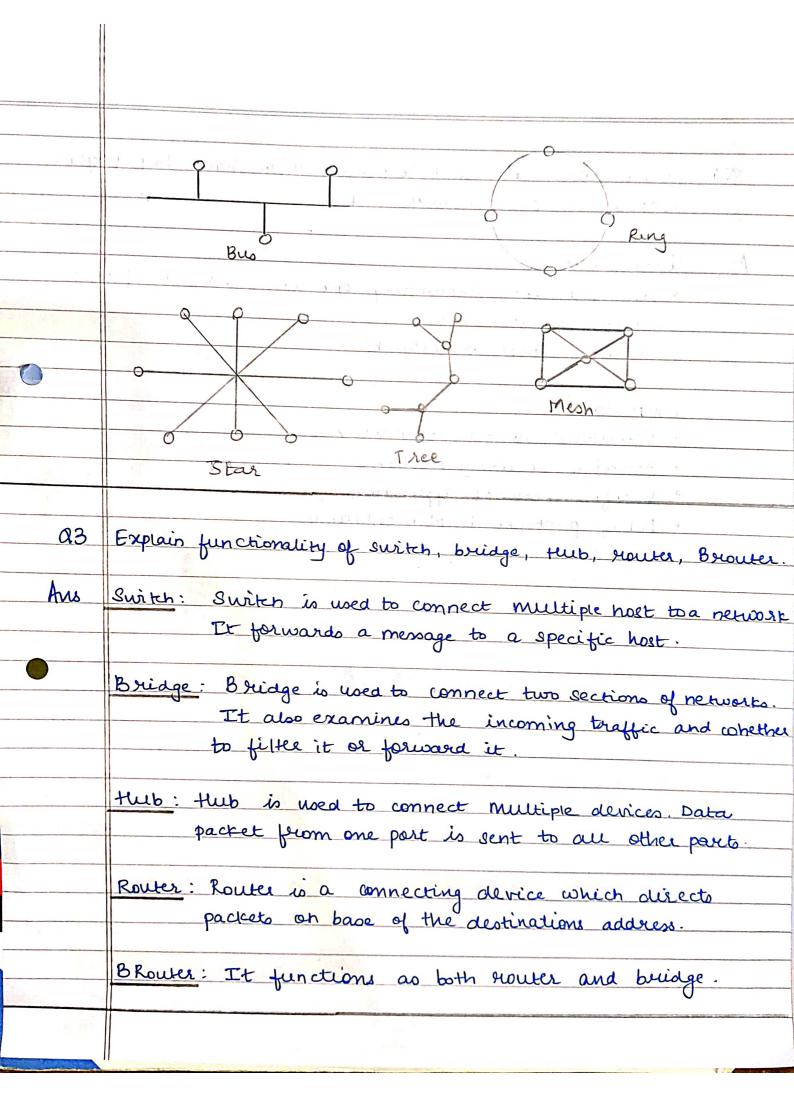
Cat 5 cable:

ranging upto 100 MHz. Attenuation 22 dB.

Cable Tester:

Designed for teoting opens, Shorts and miswired cable installations. Can work with various cables and connectors LED for error indication-

Orimping Tool: Used to austornize cables ie vimp, strip and cut. Used to make cold weld joints. What is topology? Explain it types. Ans Topology is the arrangement with which computer systems or network devices are connected to each other. Topologies may define both physical and logical aspect of the network. Types of topology: a] Bus Topology: All devices are connected by one single cable. Cable break can disable entire network. b] Ring Topology: A frame travels around the sung stopping at each device on the network. c] Star Topology: All nodes are individually connected to a central connection point. d) Tree Topology loss the excended Star topology e) Mesh Topology Each mode is connected to each other.



Q4	Write down command to install wire shark tool. Explain importance of wireshark tool
Avs	
/\v\	Commands:
	Sudo and -apt - repository ppa: wireshark -der stable
	some aft water
	sudo apt install wireshork
	Importance:
	· Troubleshoots network problems
	· Examines security problems.
	· Verifies network applications
	· Debug protocal implementations
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