

Class - VIII

Topic - Click to Connect

Month - June 2026

Notes of Lesson

I. Answer the following questions:

1. Explain the difference between PAN, LAN, MAN and WAN.

PAN	LAN	MAN	WAN
It is a smallest type of network usually covering an area of just a few meters.	When multiple users need to collaborate they connect their computers together to form LAN	Connecting multiple Local Area Network (LAN) together forms a network that covers a large area of network	It is the biggest network and connects LAN and MAN over a large areas.
Example: Smart phones connected to a Printer	Example: In an office all computers are connected to a printer to share data	Example: A City's traffic Control System connects all traffic lights and cameras.	Example: A Bank's network that connects all its branches across the country.

2. Explain any three types of network topologies.

Ans

Bus topology:

All computers are connected to a single cable. It can be visualized like a road, with houses connected to it along the way. It is simple and easy to set up,

Star topology:

All computers are connected to a central device, like spokes connecting to the center of a wheel. It provides better reliability. If the central device fails, the whole network goes down and failure appears.

Ring topology:

Each computer in ring topology is connected to two others forming a closed loop like a ring. Data is shared in both directions. If one connection breaks, the whole network will stop working and sharing the data in the network.

3. How does a website work when you type a web address and press Enter? Explain the steps involved.

Ans

When we type web address and press enter key

website starts working by these steps:

Step 1: You type the address. For example if you want to Visit python.org, you type the address into your web browser and hit enter key.

Step 2: Your browser asks the DNS (Domain Name System) and looks up the IP address for python.org.

Step 3: Now that your browser has the IP address, it knows which server to ask for the website.

Step 4: Your browser sends a message to the server, saying the

Step 5: The server finds all the files for the python.org website and sends them back to browser.

Step 6: The browser takes all these files, the text, the images, the videos and puts them together like a puzzle to create the webpage that we see.

Step 7: Finally, website appears on the screen in a fraction of second.

Competency based question:

1. During a lab demo, the main Cable Connecting all Computer breaks, and no one can access shared files. Which topology is this?

Ans. Bus topology.