

1. Computer Network

Answer the following questions

1. What is computer network?

Networking refers to a group of autonomous computers interconnected to each other for sharing of resources. The resources that they can share include data or information, software as well as hardware.

2. State three advantages of using a network.

Speed, cost and security.

3. Give three applications of network.

Communication, sharing resources and sharing software.

4. Name the different types of network.

Personal area network (PAN)

Local area network (LAN)

Metropolitan area Network (MAN)

Wide area network (WAN)

5. State the difference between LAN and MAN.

LAN	MAN
This type of network spans over a small area usually within a room or building.	This type of network spans over a larger area usually within a city
LAN is used to connect computers in a single building like school, office etc.	Cable operators usually use MAN for transmission of TV channels within a city

6. State the difference between client/ server architecture and peer to peer architecture.

Client /server architecture	Peer to peer architecture
It is a computing model in which the server hosts, delivers and manages most of the resources and services to be consumed by the client	It is a commonly used computer networking architecture in which each workstation, or node has the same capabilities and responsibilities.

7. State the difference between a hub and switch.

A switch is like a hub, but works slightly different way than the hub.. A hub simply replicates the data that it receives from one port to all other ports .The intended /destination computer receives the data, but the other computer reject it. The switch, on the other hand, receive a data from a port and forwards it only to that computer for which it is intended by looking at the MAC address of that machine.

8. State the application of a repeater.

For long distance transmission of data in a network, the transmitted signal may get weakened after a certain distance. In such situation the repeaters are used to damplify the signal which is being transmitted.

9. What is the bridge is used for?

In telecommunication network, a bridge is a product that connects a local area network to another local area network that uses the same protocol.

10. What are the different types of topology in network?

Bus topology

Ring topology

Star or radial topology

Mesh topology