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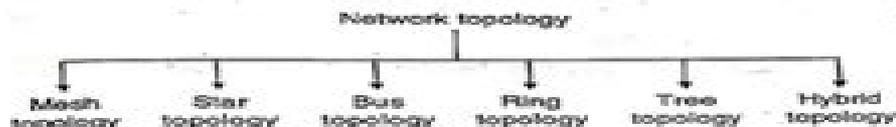
Chapter 1 : Introduction

Q. 1 Write short notes on network topologies.
Dec. 10, May 11, May 12, Dec. 16, Dec. 17, May 18

Ans. :

— The six basic network topologies are as shown in Fig. 1.1.

Network topology

Mesh topology | Star topology | Bus topology | Ring topology | Tree topology | Hybrid topology

(G-140(s)) Fig. 1.1 : Classification of network topology

— These topologies can be classified into two types :

1. Peer to peer   2. Primary – secondary

— Peer to peer is the relationship where the devices share the link equally. The examples are ring and mesh topologies.

— In Primary – secondary relationship, one device controls and the other devices have to transmit through it. For example star and tree topology.

> **Note :** An important point to be kept in mind is that the topology refers to the logical arrangement of the nodes (computers) and not the physical appearance. So sometimes a network which physically looks like a STAR may have a Bus topology when examined logically.

Switching :

— Switching is a technique of connecting computers (nodes) to a central node called switch. A switch can then be used to connect these nodes to the other nodes.

— Without switching we would need to connect every computer in the world to every other computer using separate wires. Practically it will not be possible to do due to the number of wires required to be used and the associated unreliability.

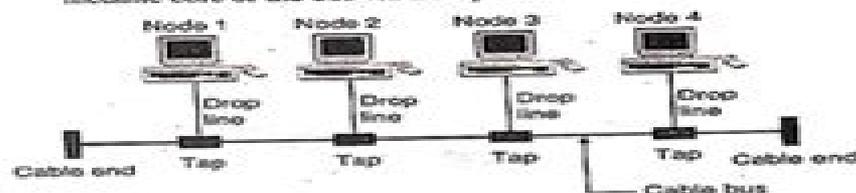**Q. 2** Explain the Bus topology with advantages and disadvantages.
Dec. 10, May 12, Dec. 16, Dec. 17, May 18

Ans. :

Definition :

— The bus topology is a network topology in which nodes are directly connected to the common linear or branched half duplex link called as bus.

— The bus topology is usually used when a network under consideration is small, simple or temporary as shown in Fig. 1.2.

— On a typical bus network a simple cable is used without additional electronics to amplify the signal or pass it along from computer to computer. Therefore bus is a passive topology.

— This long cable called bus is used as backbone to all the nodes. The tap is connector that connects the node to the metallic core of the bus via a drop line.

(G-15)Fig. 1.2 : Bus topology

Working :

— When one computer sends a signal on the cable; all the computers on the network receive the information. However only the one with the address that matches with the destination address stored in the message accepts the information while all the others reject the message.

— The speed of the bus topology is slow because only one computer can send a message at a time. A computer must wait until the bus is free before it can transmit.

— The bus topology requires a proper termination at both the ends of the cable in order to avoid reflections.

— Since the bus is a passive topology, the electrical signal from a transmitting computer is free to travel over the entire length of the cable.

— Without termination when the signal reaches the end of the cable, it returns back and travels back on the cable.

— The transmitted waves and reflected waves, if they are in phase add and if they are out of phase cancel.

— Thus addition and cancellation of wave results in a standing wave.

— The standing waves can distort the normal signals which are travelling along the cable. This can be avoided by terminating the bus on both ends in 50 Ω load.

— The terminators absorb the electrical energy and avoid reflections.

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