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All these terms are measurement units are used to refer to the amount of information travelling through a single channel at any one point of time.

**8. What are the various type of networks?**

There are three types of networks :

- a. Local Area Network (LANs)   b. Metropolitan Area Network (MAN)   c. Wide Area Network (WAN)

**9. What is the difference between MAN and WAN?**

MAN (Metropolitan Area Network)	WAN (Wide Area Network)
1. Spread within a city	1. Spread across a city, country or continent.
2. Covers an area of few kilometers	2. Covers an area of over hundreds of kilometers.
3. Example : Network in school, banks within city.	3. Example : Network of ATMs, International offices

**10. What is meant by topology? Name some popular topologies.**

In Computer Networking "topology" refers to the layout or design of the connected devices.

The most popular topologies are :

- a) Bus/ Linear topology   b) Ring / Circular Topology   c) Star Topology   d) Tree Topology  
e) Mesh Topology

**11. What are the factors that must be considered before making choice for the topology?**

There are number of factors to consider before making a choice for the arrangements of devices to be connected. The most important of which are as following :

- a) Cost   b) Flexibility   c) Reliability   d) Maintainability

**12. What are the similarities and differences between bus and tree topologies?**

Similarity : In both Bus and Tree topology, the transmissions can be done in both directions (bi-directional), and can be received by all other stations.

Dissimilarity : Bus topology is slower than tree topology. Bus topology is cheaper than Tree topology.

**13. What are the limitations of star topology?**

It requires more cable than linear topology.

If the main Hub, Switch, Server fails then nodes attached are disabled.

It is more expensive than linear bus topology because of the cost of hubs and connecting wires.

**14. Write two advantages and disadvantages of Bus topology in networking.**

Advantage :

Easy to connect a computer or peripheral to a linear bus.

Requires less cable length than a start topology.

Disadvantage :

Slower as compared to tree and star topology.

Breakage of wire at any point disturbs the entire network.

**15. Briefly mention two advantages and two disadvantages of Star topology in networking.**

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