Network Essentials – Chapter 1A Review   (Name _____)

1. A computer network is a telecommunication network that allows computers to communicate.

2. Network topology is the arrangement of elements in a computer network.

3. A node refers to any device in a network.

4. Links are cables that connect nodes.

5. Types of computer network topology include:

   Ring, Mesh,Star, Fully Connected, Line, Tree, Bus.

6. Sizes of network include small Home networks; small Office networks; medium Networks, Large Networks, and world wide networks.

7. Types of Network include:

- Peer-to-peer
- Client / Server Network
- Local Area Network
- Wide Area Network
- Metropolitan Network
- Wireless LAN
- Storage Area Network

8. In peer-to-peer networks, no server is needed. Connected computers can share printers and files. It is easy to setup. Cost is low.. There is no centralized administration, and performance can be slow, no logins needed.
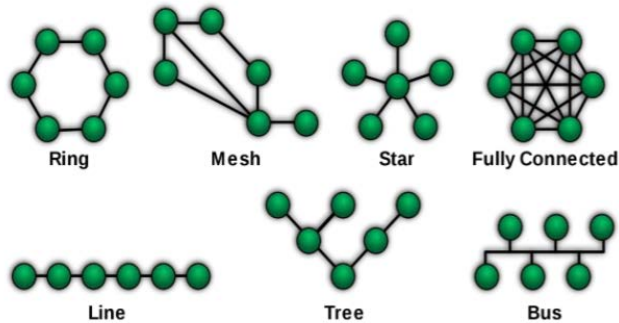
9. In Client/Server Networks, one computer serves as a server. The other computers linked to the server are known as clients. The server has resources (such as files, documents, applications, etc) that the client computers can access.

9a. The Server OS allows centralized administration and security control. A user using a client PC must login to the server using his credentials.
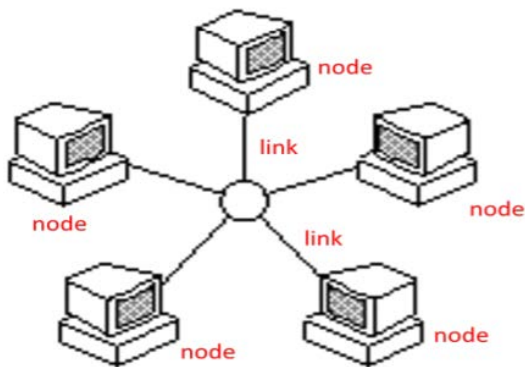
10. The three categories of components in a computer network are devices, media and services.

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Types of Network Topology

Ring Mesh Star Fully Connected

Line Tree Bus

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13. Which offers better security – Peer-to-Peer or Client/Server Network?

14. Which needs users to login - Peer-to-Peer or Client/Server Network?

15. Which is easier to set up? Peer-to-Peer or Client/Server Network?

16. In a Client/Server Network, if one client PC is not turned on, will it affect the network? No.

17. Which needs an administrator? Peer-to-Peer or Client/Server Network?

18. Two types of topology diagrams are physical topology and logical topology.

18a. Which diagram shows the actual PC location and cable layout? physical

18b. Which diagram shows the   PC address of computers in the network? logical

18c. Which diagram needs the floorplan of an office? physical

19. Network media refers to the media that data are sent from one PC to another in a network.

20. The three types of media used today are copper, fibre optic and wireless.