

Week 2 Tutorial

Students are required to do research on the following questions and need to show them to the lecturer.

1. The nodes in Mesh Topology are connected via
 - a. Multipoint link
 - b. Single link
 - c. Point-to-point link
 - d. Hybrid link
2. Which topology requires central controller?
 - a. Mesh Topology
 - b. Bus Topology
 - c. Bus Topology
 - d. Star Topology
3. Which of the following could be more reliable?
 - a. Mesh Topology
 - b. Bus Topology
 - c. Bus Topology
 - d. Star Topology
4. Define network topology and its types.
5. Define the following including its advantages and disadvantages. Also draw related diagrams:
 - a. Star topology
 - b. Bus topology
 - c. Hybrid topology
 - d. Ring topology
 - e. Mesh topology
6. What do you understand by Media types? Explain with its types.

7. Why HUB is called dumb and SWITCH is smart?

8. A recently established business called ABC Solutions is housed in a three-story structure in Itahari. As the business grows, more computing equipment are needed to efficiently carry out its activities. Let's say ABC Company hires you as a network engineer. The business wants you to create the topology that will work best for them. The business also intends to build up its own server. In total, the office has 12 PCs, 3 printers, and 1 server. Now, as a network engineer, you must design a topology suitable for ABC Solutions so that the business may carry out its duties without difficulty.