

## **Topics Covered: Network Topologies and Router Configuration**

**Question 1:** Explain the functionality of mesh networks?

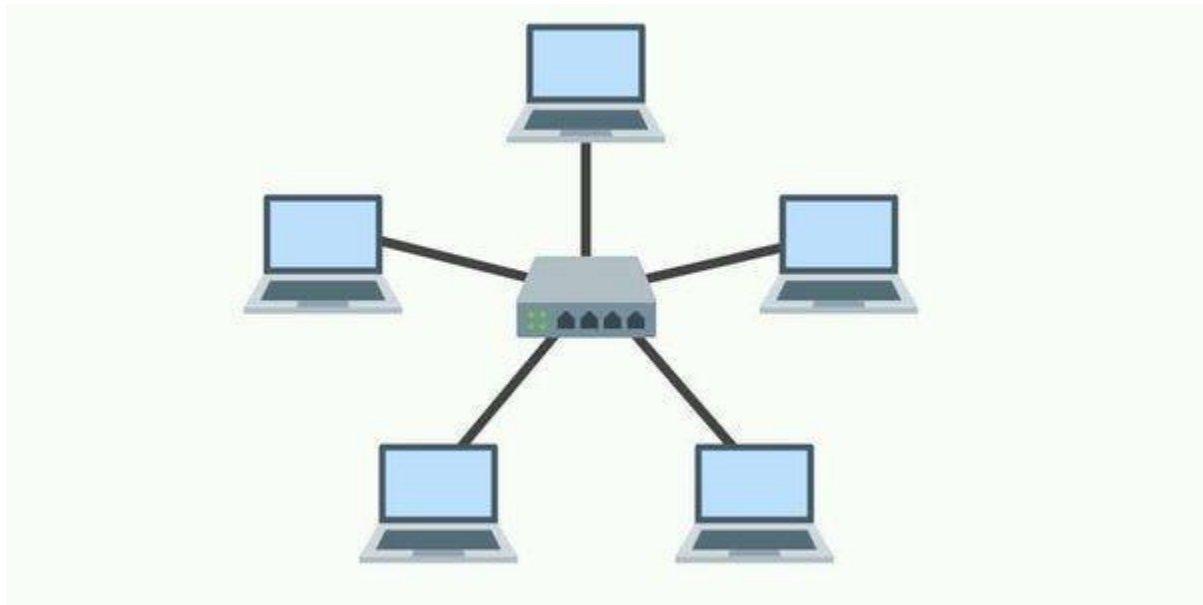
**Question 2:** State the criteria necessary for an effective and efficient network?

**Question 3:** Illustrate the factors that affect the performance of the network?

**Question 4:** Explain the purpose of Router? How is it different from a gateway?

**Question 5:** State the different types of network topology.

**Question 6:** The following diagram shows the arrangement of the computers in a small office.



(a) State the correct name for this type of network topology.

(b) State two other network topologies

(c) Describe two advantages of this type of topology over the other two that you have stated.

**Question 7.** Differentiate between Static Routing and Dynamic Routing

**Question 8.** Explain some drawbacks of implementing a ring topology?

**Question 9** Describe the main advantage of Mesh Topology.

**Question 10.** If 6 devices are connected in a MESH network, then explain: -

- a) How many ports are required by a node?
- b) How many dedicated links are required to them?