

## **Interconnecting Devices**

### Reference Questions:

1. Explain how a switch uses a forwarding (MAC) table to make decisions. (Learning process)
2. Compare and contrast hubs, bridges, and switches in terms of performance and functionality.
3. Discuss the advantages of VLANs in a large organization.
4. Different VLAN can communicate? Explain your answer
5. Explain with an example how a backbone network connects smaller LANs together.
6. Describe the steps in the switch learning process when receiving a new frame.
7. A university wants to separate students, teachers, and administrative staff into different groups without rewiring their network. Which technology would you suggest and why?
8. If two switches are connected without proper loop prevention, what problem might occur in the network and why?
9. Explain loop in Switch. How do switch solve looping problem?
10. Why backbone network is used?
11. Define various devices roles used in different layer of OSI model.