**Chapter 10**

1. What is routing protocol?
2. Types of routing protocol

A **routing** [**protocol**](https://en.wikipedia.org/wiki/Protocol_%28computing%29) specifies how [routers](https://en.wikipedia.org/wiki/Router_%28computing%29) communicate with each other, disseminating information that enables them to select routes between any two [nodes](https://en.wikipedia.org/wiki/Node_%28networking%29) on a [computer network](https://en.wikipedia.org/wiki/Computer_network). [Routing](https://en.wikipedia.org/wiki/Routing) algorithms determine the specific choice of route. Each router has [a priori knowledge](https://en.wikipedia.org/wiki/A_priori_knowledge) only of networks attached to it directly. A routing protocol shares this information first among immediate neighbors, and then throughout the network. This way, routers gain knowledge of the topology of the network.

Although there are many types of routing protocols, three major classes are in widespread use on [IP](https://en.wikipedia.org/wiki/Internet_protocol) networks:

* [Interior gateway protocols](https://en.wikipedia.org/wiki/Interior_gateway_protocol) type 1, [link-state routing protocols](https://en.wikipedia.org/wiki/Link-state_routing_protocol), such as [OSPF](https://en.wikipedia.org/wiki/Open_Shortest_Path_First) and [IS-IS](https://en.wikipedia.org/wiki/Intermediate_system_to_intermediate_system)
* [Interior gateway protocols](https://en.wikipedia.org/wiki/Interior_gateway_protocol) type 2, [distance-vector routing protocols](https://en.wikipedia.org/wiki/Distance-vector_routing_protocol), such as [Routing Information Protocol](https://en.wikipedia.org/wiki/Routing_Information_Protocol), [RIPv2](https://en.wikipedia.org/wiki/RIPv2), [IGRP](https://en.wikipedia.org/wiki/Interior_Gateway_Routing_Protocol).
* [Exterior gateway protocols](https://en.wikipedia.org/wiki/Exterior_gateway_protocol) are routing protocols used on the [Internet](https://en.wikipedia.org/wiki/Internet) for exchanging routing information between [Autonomous Systems](https://en.wikipedia.org/wiki/Autonomous_System_%28Internet%29), such as [Border Gateway Protocol](https://en.wikipedia.org/wiki/Border_Gateway_Protocol) (BGP), Path Vector Routing Protocol.

1. White are Distance vector and link state ?(classes of routing protocol)
2. What is administrative distance 275p
3. Fetchers of RIP, RIPv2, IGRP, OSPF, IS-IS, EIGRP,
4. What is VLSM?
5. What Is BGP?

**Chapter 12**

1. What is WLAN?
2. Write a short Note about 802.11 standards.
3. What is wireless access point?
4. Wireless network interface Card?
5. Short note –SSID, WEP/WPA, WPA-2, TKIP, AES,