

Computer Network

Unit-3 (Question Bank)

- ① Discuss the functionalities and design issues of network layer.
- ② Explain various types of routing Algorithm.
- ③ What do you mean by unicast & multicast routing with suitable diagram. (AKTU 2013-14)
- ④ Discuss unicast routing and its protocols. (AKTU 2015-16, 2017, 18)
- ⑤ Discuss Dijkstra Algorithm.
- ⑥ Describe the problem of count to infinity. (AKTU 2016-17)
- ⑦ What is congestion? describe the techniques that prevent congestion. (AKTU 2017-18) (2015-16)
- ⑧ What do you mean by QoS? What are the parameters of QoS.
- ⑨ Write short note on ARP and RARP.
- ⑩ What is IP addressing? Give the classification of different IP address. (AKTU 2015-16, 2017-18)
- ⑪ Explain the types of IP Address. (IPv4, IPv6)
- ⑫ Draw and explain the packet format of IPv4 and IPv6.
- ⑬ Give an IP Address, how will you extract its netid and host id?

- (14) What is meant by fragmentation? Is fragmentation needed in concatenated virtual circuit internets or any datagram system. (Aktu 2015-16, 2013-14)
- (15) What is an interconnecting device in the internet. Explain various interconnecting devices with suitable example.

Numericals -

- (1) What is the transmission time of a packet sent by a station if the length of the packet is 2 million bytes and the bandwidth of the channel is 300 kbps.
- (2) Find the class of each Address -
- a. 140.213.10.80
- b. 52.15.150.11