**Question bank**

1. Differentiate the Virtual circuit and Datagram networks.
2. Draw the IPV4 Header format and explain the fields.
3. Explain the Code Division Multiple Access.
4. Explain about Class full addressing and CIDR (Class-less Addressing).
5. Discuss the different Congestion control policies.
6. Explain Leaky Bucket and Token Bucket algorithms.
7. Explain the Hierarchical Routing algorithm and discuss its advantages and limitations.
8. Explain the Dijkstra's Shortest Path Algorithm with an example.
9. Explain Network layer protocols ICMP,DHCP and ARP in detail.
10. Explain standard Ethernet (IEEE 802.3).
11. Compare Distance Vector Routing and Link State Routing.
12. Explain TCP Connection management Finite State Machine. Explain all states in it.
13. Explain the structure of TCP Header format.
14. Discuss about the header format of UDP.
15. Explain the working of DNS.
16. What are the five basic functions supported in e-mail systems? Explain.
17. Write short notes on the following

i) HTTP ii) SNMP