**MID-2 QUESTIONS**

1. Discuss in detail about the structure of IPV4 header with neat diagram
2. Explain dijkstra’s shortest path algorithm with an example.
3. Explain distance vector routing with an example.
4. Discuss open shortest path first(OSPF) protocol with an example
5. When does congestion occur? Discuss various congestion control techniques.
6. Discuss in detail, the services of transport layer in connection oriented networks over connectionless networks.
7. Explain TCP protocol with a neat diagram
8. Explain various transport services in transport layer
9. Explain UDP protocol with a neat diagram
10. Explain leaky bucket algorithm for congestion control
11. Demonstrate the process of connection management in transport layer.
12. Discuss in detail, the structure of UDP header with neat diagram.
13. Illustrate the working of DNS with a neat diagram
14. List and explain various mechanisms for providing security in networks.
15. Explain in detail about world wide web.
16. Discuss how simple mail transport works? Can multimedia messages be transmitted using SMTP ? explain.
17. Explain about architecture and services of electronic mail
18. Explain in detail about domain name system
19. Explain about Hyper-text transfer protocol (HTTP)
20. Explain in detail about SNMP protocol