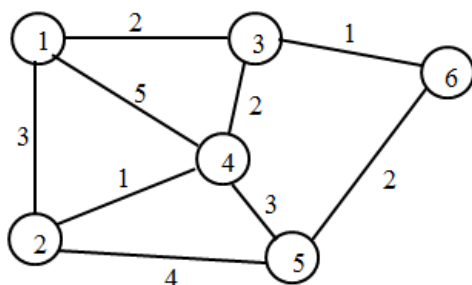


1. a. Categorize the routing protocol based on the choices of routing and explain each one in detail. (8)
b. What is crankback? With neat diagram, explain Dynamic nonhierarchical routing. (12)

OR

2. a. Compare different communication switching techniques with neat diagrams. (5)
b. With neat diagrams, explain ATM network and different routing techniques in ATM network. (15)
3. a. Discuss on topology dissemination, sequence numbers and aging concepts in link state routing. (10)
b. Consider the network shown below. Using Dijkstra's algorithm, find the shortest path from all nodes to destination. (5)



- c. Contrast on link state and distance vector routing protocol. (5)

OR

4. a. Compare Border Gateway and Exterior Gateway protocol. With neat diagrams, explain exterior gateway protocol and its packet format. (15)
b. Write short notes on Routing information Protocol. (5)
5. a. Enumerate the main functions of Inter Domain Routing Protocol (IDRP). (7)
b. With neat diagrams, explain the components of cellular network and different types of handoff mechanisms. (13)

OR

6. a. Comprehend on Mobile IP routing. (5)
b. What is AppleTalk Networking? Discuss additional protocols implemented in AppleTalk networks, including protocols used in the upper layers of the OSI reference model. (15)
7. a. Explain the different routing algorithms used in large packet radio network. (10)
b. Discuss the issues to be considered when deploying MANET and applications of MANET. (10)

OR

8. a. Write short notes on Cellular Digital Packet Data (CDPD). (7)
b. With neat diagrams, explain the routing algorithms used in DARPA packet radio. (8)
c. Given the IP address 191.6.8.23, find the class, network ID, host ID, network address, default subnet mask and convert the given IP address to binary. (5)

9. With neat diagrams, explain the following adhoc routing protocols:(7+7+6)

- a. Cluster head gateway switch routing protocol
- b. Destination sequenced distance vector protocol
- c. Temporally ordered routing algorithm

Wishing you All the Best
