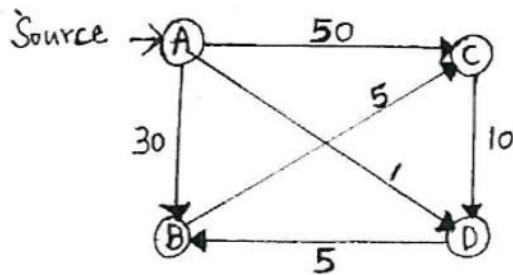


**ASSIGNMENT - 02**  
**ATTEMPT FOR 50 MARKS**

1. Compare and contrast Client-Server and Peer-to-Peer architecture. [2 Marks]
2. Describe HTTP with persistent and non-persistent Connections. [2 Marks]
3. Write a note on web caching. [2 Marks]
4. Describe in detail the services offered by DNS and explain the DNS message format. [6 Marks].
5. Explain FTP with its commands and replies. [4 Marks]
6. Explain the basic operation of SMTP. [4 Marks]
7. Explain how interaction occurs between web browser and web server using HTTP messages. Explain HTTP request message format. [6 Marks]
8. Explain POP3 in detail. [4 Marks]
9. With a general format, explain the HTTP request and HTTP response messages. [6 Marks].
10. Elaborate 3-way handshaking in TCP. [4 Marks]
11. Discuss Go-Back-N Protocol. [6 Marks]
12. Explain Selective Repeat ARQ Protocol. [6 Marks]
13. Discuss IPV6 Packet Format. [6 Marks]
14. Apply the distance vector routing protocol algorithm to find the shortest path from node A to all other nodes on the following : [6 Marks]



15. List Broadcast routing algorithms. Explain any one of them. [4 Marks]
16. Write the link-state routing algorithm. Solve the following graph using link-state algorithm with source node 'u'. [10 Marks]

