

Department of Electronics & Communication Engineering
Faculty of Engineering, Integral University, Lucknow

Assignment Sheet 4

Data Communication Network (EC-701)

Due Date : 14-10-2014

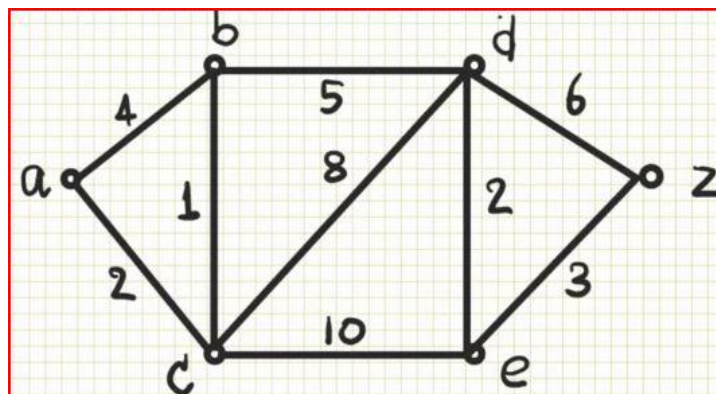
Problems : 5

Q1. What do you understand by **Routing**? Why do we need a routing Algorithm?

Q2. What is Link State Routing and Distance Vector Routing Algorithm.

Q3. Discuss **Dijkstra's Algorithm** for finding the shortest path in a communication Network and also explain **Hierarchical Routing**.

Q4. Find the shortest path between nodes 'a' and 'z' for the network shown below with link costs mentioned on each node.



Q5. What do you understand by **Congestion control Protocols**? Explain **Leaky Bucket** and **Token Bucket** Protocol.

Instructions:

- ❖ Do the Assignment on A-4 sheet only. Use both side of the page
- ❖ After the last date of the submission, assignment will not be accepted and zero marks will be awarded to the student who fails to submit the assignment on due date.
- ❖ For help student can take reference reading of the book Data Communications and Networking by Behrouz A.Forouzan of McGraw Hill Publication House.