

III B.Tech II Semester Supplementary Examinations, January 2005
COMPUTER NETWORKS
(Electronics & Control Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) List the principles that were followed in OSI reference model.
(b) Compare the connection oriented and connectionless services.
2. (a) How to determine the maximum data rate of a channel?
(b) Distinguish the merits of different transmission media.
3. (a) What are the functions of data link layer.
(b) Explain the simplex stop-and-wait protocol.
4. (a) What is frequency division multiplexing (FDM)? What are its disadvantages.
(b) Compare different IEEE LAN standards.
5. (a) Explain the hierarchical routing algorithm.
(b) Explain the packet discarding strategy followed to avoid congestion.
6. (a) What are the characteristics of connection less gateways.
(b) Explain the chained variable length buffering.
7. (a) What is multiplexing? Distinguish between upward and downward multiplexing.
(b) What are the steps involved in Huffman coding.
8. (a) Discuss about the data encryption standards.
(b) Explain about any two substitution cipher techniques for cryptography.
