

IV B.Tech II Semester Supplementary Examinations, April/May 2005  
**COMPUTER NETWORKS**  
(Electronics & Communication Engineering)

Time: 3 hours

Max Marks: 70

Answer any FIVE Questions  
All Questions carry equal marks

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1. (a) Discuss the architecture of OSI Reference model.  
(b) What are the characteristics of ARPANET.
2. (a) Distinguish the coding techniques adapted in broad band coaxial cables.  
(b) What is multimode fiber.
3. (a) What are different kinds of services offered by data link layer. Briefly explain.  
(b) Explain the un restricted simplex protocol.
4. (a) Distinguish between static and dynamic channel allocations in LANs.  
(b) State and explain the 802.3 frame format.
5. (a) What are the characteristics of adaptive routing algorithm.  
(b) Explain the congestion control strategy "pre allocation of buffers".
6. (a) Explain the characteristics of connection oriented gateways.  
(b) What are the steps in three-way hand shake in establishment of a connection.
7. (a) What are the services provided by the transport layer to the sessions layer.  
(b) Explain any one of the frequency dependent coding techniques.
8. Write short notes on:
  - (a) Reliable Transfer Service (RTS)
  - (b) Run-length coding
  - (c) Multiplexing.

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