Code: 9A05506

R09

B.Tech IV Year I Semester (R09) Supplementary Examinations, May 2013
COMPUTER NETWORKS
(Common to ECE and EIE)

Time: 3 hours   Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks
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1 (a) Explain briefly about the network layer design issues.
   (b) Compare distance vector routing and link state routing algorithms.

2 (a) Briefly explain how the data link layer switching is done.
   (b) With a neat sketch explain the operation of simple two port bridge.

3 (a) Explain the terms "sender window" and "receiver window" in sliding window protocol.
   (b) Explain error detection and correction at data link layer.

4 (a) Discuss in detail about network topologies.
   (b) What are the advantages of using optical fiber as a transmission media?

5 (a) Explain the principles of RFC 1958 in detail.
   (b) Discuss in detail about the sequencing of the fragments.

6 (a) Draw and explain the position of RTP in the protocol stack.
   (b) Give brief description about the UDP protocol.

7 (a) List and explain the components present in the user agent.
   (b) Explain the RFC 822 formats with suitable example.

8 (a) Write short notes on symmetric key signatures.
   (b) What is message digest? Explain it in detail with a suitable example.

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