Code: 9A05506

R09

B.Tech IV Year I Semester (R09) Regular & Supplementary Examinations December 2015

COMPUTER NETWORKS

(Common to ECE & EIE)

Time: 3 hours   Max. Marks: 70

Answer any FIVE questions

All questions carry equal marks

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1 (a) Discuss in detail about network topologies.

   (b) What are the advantages of using optical fiber as a transmission media?

2 (a) Compare and contrast SLIP and PPP

   (b) Draw and explain HDLC frame format.

3 (a) What is pure ALOHA and slotted ALOHA? Mention the advantages of slotted ALOHA.

   (b) Discuss about MAC addresses.

4   Explain multi destination routing and reverse path forwarding technique with examples.

5 (a) Write and explain the IPv6 Header format.

   (b) Explain the routing in internet by using the BGP Protocol.

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   Write short notes on the following:

   (a) Advanced Encryption Standard.

   (b) Quantum cryptography.

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