B.Tech III Year II Semester (R09) Supplementary Examinations May/June 2017
COMPUTER NETWORKS
(Common to CSS and ECC)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks
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1 (a) Compare and contrast OSI and TCP/IP model.
  (b) Briefly explain the working of Batcher-Banyan switch.

2 (a) Compare and contrast SLIP and PPP
  (b) Draw and explain HDLC frame format.

3 Write short notes on the following:
  (a) IEEE 802.5 standard
  (b) IEEE 802.4 token bus standard.

4 (a) Briefly explain about routing algorithms in network layer.
  (b) What are the problems of distance vector routing? Explain the algorithm that replace it?

5 What is internetworking? What are the different devices used to interconnect dissimilar networks at different layers? Explain them in detail.

6 (a) Give brief introduction about the User Datagram Protocol.
  (b) Explain the steps for remote procedure call

7 (a) Explain the name servers with a neat sketch.
  (b) Give brief description about the architecture and services of an e – mail.

8 Write short notes on the following:
  (a) Advanced Encryption Standard.
  (b) Quantum cryptography.

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