

Code: 9A05506

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 Batchier-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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