

Code: R7320503

III B. Tech II Semester (R07) Supplementary Examinations, November/December 2012

**COMPUTER NETWORKS**

(Common to CSE, IT, CSS & ECC)

Time: 3 hours

Max. Marks: 80

Answer any FIVE questions

All questions carry equal marks

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- 1 (a) Write any four reasons for using layered protocols.  
(b) Compare and contrast OSI and TCP/IP model.
- 2 (a) With a neat diagram explain ISDN system with a PBX for use in large businesses.  
(b) What are the problems with message switching? How packet switching over comes it?
- 3 Explain in detail the two data link layer protocols widely used in internet.
- 4 What is a token? Discuss the protocol of token ring LAN in general. Discuss with example how priority is implemented in a token ring LAN.
- 5 (a) List and explain the various issues in datagram subnets.  
(b) What are the disadvantages of virtual circuits?
- 6 (a) What is load shedding? Explain its importance in the control of congestion.  
(b) Define jitter. Explain it.
- 7 (a) What are the transport service primitives? Explain.  
(b) What are sockets, explain the role of sockets in network layer?
- 8 (a) Discuss the role of name servers in DNS.  
(b) What protocol is used to transfer message from originator to recipient? Explain it in detail.

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