



(Pages : 2)

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Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, November 2015
(2008 Scheme)**

08.803 : COMPUTER COMMUNICATION (T)

Time : 3 Hours

Max. Marks : 100

PART – A



Answer **all** questions.

1. Compare OSI Reference layering with TCP/IP layering.
2. Consider sending a packet of F bits over a path of Q links. Each link transmit a R bps. The network is packet switched datagram network and assumed to be lightly loaded so that queuing delay is negligible. Propagation delay = 0. If each packet has $2h$ bits of header, then estimate how long it take to send the packet ?
3. Explain the structure of MAC address.
4. Briefly explain salient features of broadcast and multicast routing.
5. Compare and contrast link state and distance vector routing algorithms.
6. Distinguish between congestion control and flow control.
7. Explain ICMP. What are the different ICMP message types ?
8. What do you mean by packet filtering ? What are the different filtering policies ?
9. Explain the need for network intrusion detection systems.
10. Explain how integrity of message can be ensured using digital signatures.

(10×4 = 40 Marks)

P.T.O.



PART - B

Answer **any two** questions from **each** Module.

Module – I

11. Explain how reliable data transfer can be achieved using stop and wait protocol.
12. Explain CSMA/CD as a multiple access protocol for Ethernet.
13. Discuss spanning tree based broadcast routing strategies. What are the limitations of this method ?

Module – II

14. Discuss the important differences between IPv6 and IPv4 datagram formats.
15. Explain TCP congestion control algorithm.
16. Explain how MPLS improve the speed of IP routers.

Module – III

17. Discuss confidentiality and authentication associated with secure communication.
18. Explain DOS attacks.
19. Briefly explain the features provided by IPSec protocol suite. **(6×10=60 Marks)**