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Reg. No. : .....

Name : .....

Eighth Semester B.Tech. Degree Examination, November 2013
(2008 Scheme)
08.803 : COMPUTER COMMUNICATION (T)

Time : 3 Hours Max. Marks : 100

PART – A

Answer **all** questions.

1. Compare the features of circuit switching and packet switching.
2. What do you mean by end-to-end delay ? If there are N routers between source and defination hosts, R is the transmission rate in bits/sec and L is the packet size, estimate the end-to-end delay. State your assumptions.
3. Compare co-axial cable with fiber optic cable. What type of physical media is suitable for long distance communications ?
4. Briefly explain CSMA/CD as multiple access protocol for Ethernet.
5. What do you mean by flow control in a network ? How it is different from congestion control ?
6. Draw the structure of IPv6 datagram format. Discuss the important differences with IPv4 datagram format.
7. Briefly explain the need for routing algorithms. How routing algorithms are classified ?
8. Explain the need for authentication .
9. Explain the features provided by SSL.
10. Describe salient features of firewalls. **(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 sliding window protocol.
12. Briefly explain different broadcast routing algorithms.
13. Compare OSI reference layering with TCP/IP layering.

MODULE – II

14. Explain TCP congestion control algorithm.
15. Explain link-state routing algorithm with an illustrative example.
16. Explain how OSPF can be effectively used as a routing strategy within an autonomous system in the Internet.

MODULE – III

17. What are the desired properties of secure communication ? Explain any two in detail.
18. What do you mean by digital signature ? Explain how to create a digital signature for a document.
19. Write a short note on VPN. **(6×10=60 Marks)**