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Seventh Semester B.E. Degree Examination, December 2010
Computer Communication Networks

Time: 3 hrs.

Max. Marks:100

*Note: Answer any FIVE full questions, selecting
at least TWO questions from each part.*

PART – A

- 1 a. What are the levels of addresses that are used in an internet, employing the TCP/IP protocols? (10 Marks)
- b. What are different types of services provided by telephone networks? (06 Marks)
- c. Name the major components of a telephone network. (04 Marks)
- 2 a. Explain the stop-and-wait protocol, for noisy channels. (10 Marks)
- b. What are the three types of frames in HDLC protocol? Explain each of them briefly. (10 Marks)
- 3 a. Explain pure ALOHA protocol. (06 Marks)
- b. Pure ALOHA network transmits 200-bit frames on a shared channel of 200 Kbps. What is the throughput if the system produces :
i) 1000 frames/sec ii) 500 frames/sec iii) 250 frames/sec? (04 Marks)
- c. Discuss the three controlled access methods. (10 Marks)
- 4 a. Explain the goals, MAC sub layer and physical layer of the fast Ethernet. (10 Marks)
- b. Explain briefly the baseband layer in the Bluetooth layers. (10 Marks)

PART – B

- 5 a. Explain briefly the three criteria of the transparent bridge. (10 Marks)
- b. Explain virtual LANs systems. (10 Marks)
- 6 a. Find the class of the following IP addresses:
i) 237.14.2.1
ii) 208.35.54.12
iii) 129.14.6.8
iv) 114.34.2.8 (04 Marks)
- b. What is NAT? How can NAT help in address depletion? (06 Marks)
- c. Explain IPV6 addresses. (10 Marks)
- 7 a. Explain the path vector routing, for an interdomain system. (10 Marks)
- b. Explain the Core-Based Tree (CBT). (10 Marks)
- 8 Write short notes on any TWO of the following : (20 Marks)
 - a. UDP
 - b. TCP
 - c. DNS

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and/or equations written eg, 42+8 = 50, will be treated as malpractice.

