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10MCA32

Third Semester MCA Degree Examination, December 2011
Computer Networks

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. What are the applications of computer networks? Explain briefly. (10 Marks)
b. Describe Hook's switches and clouds, with the help of a diagram? (10 Marks)

- 2 a. What is a protocolgraph? (03 Marks)
b. Explain the NRZ encoding scheme. (07 Marks)
c. Explain the BISYNC frame format. (10 Marks)

- 3 a. Explain the sliding window algorithm. (10 Marks)
b. Discuss how ring (80 2-5) works, with the help of a diagram. (10 Marks)

- 4 a. What is switching and forwarding? (03 Marks)
b. Explain how virtual circuit works, with the help of VC table. (07 Marks)
c. Explain how leashing bridge functions. (10 Marks)

- 5 a. Explain briefly the IPv4 header format. (05 Marks)
b. Describe the ARP, DHCP and ICMP protocols. (15 Marks)

- 6 a. What are the significance differences between UDP and TCP? (10 Marks)
b. Explain silly window syndrome. (10 Marks)

- 7 a. Discuss the role of Domain name system. (03 Marks)
b. Explain how telnet works. (07 Marks)
c. Discuss how two users exchange e-mail through SMTP? (10 Marks)

- 8 Write short notes on:
a. FTP
b. HTTP
c. VOIP
d. Wireless links. (20 Marks)

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.