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10SCN13

First Semester M.Tech. Degree Examination, June/July 2011
Network Programming

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1 a. Explain briefly the reasons for explosive growth in computer networks. Mention some typical network applications. (05 Marks)
- b. Explain concurrent server. (05 Marks)
- c. Explain the salient features of TCP/IP. (10 Marks)

- 2 a. Differentiate between network i/o and file i/o. (04 Marks)
- b. With a neat diagram explain all the salient system calls required for a connection oriented protocol. (08 Marks)
- c. Explain the three signals generated for a socket. (08 Marks)

- 3 a. What is internet super server? Explain steps performed by inctd. (10 Marks)
- b. Explain passing of file descriptors. Also explain its usefulness using 2 instance. (10 Marks)

- 4 a. Explain TFTP packet formats and data formats. (10 Marks)
- b. Briefly discuss about sorcerer's apprentice syndrome and its corrective process. (10 Marks)

- 5 a. Explain client user interface of TFTP. (08 Marks)
- b. Briefly discuss rcmd and rshd functions. (06 Marks)
- c. Write a explanatory note on recording process. (06 Marks)

- 6 a. What are pseudo terminals? Write a pseudo terminal routine provided by 4.3 BSD. (10 Marks)
- b. What is rlogin? Explain the process of remote login from a windowing terminal. (10 Marks)

- 7 a. Explain client server computing. (08 Marks)
- b. Explain serving multiple clients. (06 Marks)
- c. Briefly explain retrieving files from web server. (06 Marks)

- 8 Write short notes on:
 - a. Subnet addresses with example.
 - b. Reserved ports.
 - c. Terminal modes.
 - d. Applet clients. (20 Marks)

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