First Semester M.Tech. Degree Examination, December 2010
Network Programming

Time: 3 hrs.   Max. Marks:100

Note: *Answer any FIVE full questions.*

1   a. Discuss the client server model.   (05 Marks)
    b. What do you mean by concurrent server?   (05 Marks)
    c. With necessary diagrams, illustrate four layer models.   (05 Marks)
    d. List the interesting features of TCP/IP.   (05 Marks)

2   a. Write a program to explain TCP client and server program.   (12 Marks)
    b. What are the steps performed by inetd? Explain the internet superserver.   (08 Marks)

3   a. Explain the socket system calls for connection oriented and connection less protocol, with necessary diagrams.   (10 Marks)
    b. Discuss the passing file descriptors.   (10 Marks)

4   a. Describe the five types of packets used by TFTP.   (05 Marks)
    b. What is the technique used by TFTP to handle connections?   (05 Marks)
    c. Explain the sorcerer's apprentice syndrome and its correction.   (10 Marks)

5   a. What are the steps performed by rshd server?   (05 Marks)
    b. Explain the sequence of steps to establish rshd connection.   (10 Marks)
    c. Explain the rcmd function, with necessary prototype.   (05 Marks)

6   a. Write a brief note on the recoding process overview.   (10 Marks)
    b. What are the pseudo terminals? Write a pseudo terminal routine provided by 4.3 BSD UNIX.   (10 Marks)

7   a. What is rlogin? Explain the process of remote login on multiple windows.   (12 Marks)
    b. List the functions done by line discipline module.   (08 Marks)

8   Write short notes on :
    a. Applet clients
    b. Retrieving objects from web server
    c. Inet address class
    d. Sending and receiving objects.   (20 Marks)

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