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10SCN13

First Semester M.Tech. Degree Examination, June 2012
Network Programming

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1
 - a. What is layering? With a diagram explain simplified 4-layer model. (08 Marks)
 - b. Describe 7-layer OSI model and mention protocols used in each layer. (08 Marks)
 - c. What is process? What are the important functions of server process in a client-server model. (04 Marks)
- 2
 - a. Explain the Network layer protocol in Internet protocol suite (TCP/IP) in detail. (10 Marks)
 - b. Draw and explain the diagram of socket system calls for connections protocol. (10 Marks)
- 3
 - a. What is internet superserver? Explain briefly the steps performed by inetd. (10 Marks)
 - b. Give the structure of Advanced socket system calls and explain. (10 Marks)
- 4
 - a. Explain TFTP packet formats and data formats. (10 Marks)
 - b. Explain TFTP client user interface. (10 Marks)
- 5
 - a. Explain the remote command execution with a diagram. (08 Marks)
 - b. Explain the sequence of steps to establish an rshd connection with diagram. (08 Marks)
 - c. Give the syntax for rexec function and explain its parameters. (04 Marks)
- 6
 - a. What is a pseudo terminal? Explain the recording process with pseudo terminals. (10 Marks)
 - b. What are the steps required when invoking rlogin server? Explain. (10 Marks)
- 7
 - a. What is socket? How to create server and client sockets? Explain with syntax by using Java. (06 Marks)
 - b. What is datagram socket? Explain send and receive functions using datagram packets. (08 Marks)
 - c. How do you retrieve object from web servers? Explain. (06 Marks)
- 8

Write short notes on:

a) HTTP	b) Terminal modes
c) Byte ordering routines	d) Asynchronous $\frac{2}{0}$

(20 Marks)
