

Code :R7410501

R7

IV B.Tech I Semester(R07) Supplementary Examinations, May/June 2011
NETWORK PROGRAMMING

(Common to Computer Science & Engineering, Information Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. (a) Briefly discuss buffer sizes and limitations of TCP and UDP protocols.
(b) Listout several standard services provided by TCP/IP. Give a brief summary of the protocol usage of various common internal applications.
2. (a) Explain byte ordering and byte manipulating functions.
(b) What are the advantages of concurrent servers? Explain the procedure for handling multiple clients.
3. (a) Briefly explain normal startup and termination between client and server. Explain POSIX signal handling.
(b) Explain the procedural steps for crashing and rebooting of server hosts.
4. (a) Briefly discuss select and str-cli functions.
(b) Explain protocol independent socket options.
5. (a) Describe the important functions of UDP echo server.
(b) How a UDP socket can be used to determine the outgoing interfaces? Explain it.
6. (a) Explain the important of gethostbyname function in IPV6 addresses. What is the purpose of gethostbyaddr function?
(b) Describe getservbyname and getservbyport functions with example.
7. (a) What are the advantages of FIFOS over pipes? Explain stream and messages with example.
(b) Discuss the importance of message queue? Explain different functions.
8. (a) Give a brief overview of rlogin with example.
(b) Describe the transparency issues of RPC with example.
