

Code: R7410501

R7

IV B.Tech I Semester (R07) Supplementary Examinations, May 2012
NETWORK PROGRAMMING
(Common to Computer Science & Engineering and Information Technology)

Time: 3 hours**Max Marks: 80**

Answer any FIVE questions
All questions carry equal marks

1. (a) Briefly discuss the posix and open group standards?
(b) Draw and explain TCP state transition diagram.
2. (a) Why you need socket address structure? List out and explain different socket address structures?
(b) Give a brief introduction about elementary socket functions.
3. (a) Discuss the flow of functions between TCP client and server.
(b) Explain the procedure for termination of server process.
4. (a) What are the types of I/o modes available in Unix? Explain them with example.
(b) Explain merits and demerits of shutdown and poll functions?
5. (a) Discuss the procedure to prevent losing of datagram in UDP client-server example. Sketch the summary of UDP client and server perspectives.
(b) Briefly explain flow control with UDP protocol.
6. (a) What is the purpose of DNS? Explain it with example.
(b) Describe uname function. Discuss the procedure to determine the local host IP addresses?
7. (a) Compare and contrast file and record locking techniques. Discuss the importance of pipes.
(b) Explain semaphores with example.
8. (a) Explain the importance of terminals. Discuss various terminal modes.
(b) Write short notes on pseudo and control terminals.
