

Code: IT6T2

III B.Tech - II Semester – Regular Examinations - May 2015

**NETWORK PROGRAMMING
(INFORMATION TECHNOLOGY)**

Duration: 3 hours

Marks: 5x14=70

Answer any FIVE questions. All questions carry equal marks

1 a) Explain TCP connection establishment and termination.

7 M

b) Discuss protocol usage by common internet application.

7 M

2 Write a concurrent server program which uses TCP and server before call to fork(), after fork() socket closing by parent and child.

14 M

3 a) Explain the steps in normal startup and termination of TCP echo client and server.

10 M

b) Outline the differences between wait() and waitpid() functions.

4 M

4 a) Explain the need of shutdown function in the I/O multiplexing.

4 M

- b) Describe Blocking I/O and Non-blocking I/O Model. 10 M
- 5 a) Write a simple echo server and client programs using UDP socket. 7 M
- b) Explain various server side system calls of UDP. 7 M
- 6 a) Explain about Domain Name System. 10 M
- b) Write about uname function 4 M
- 7 a) Give overview of IPC methods 6 M
- b) Purpose of fork () 3 M
- c) File and Record locking 3 M
- d) Name and Spaces 2 M
8. What is message queue? Discuss all functions to handle Message queue with suitable example. 14 M