**SET-1 IV CSE A & B - Assignment Test LINUX PROGRAMMING Date: 18-10-2012 Marks:50 Time: 90 Min**

***PART-A*: Descriptive - Answer any TWO of the following 2 x 15 =30 MARKS**

1.What are pipes ? Explain their limitations. Explain how pipes are created and used in IPC with an examples. [15]

2. Explain the kernel data structure for shared memory with a neat diagram. Also explain the APIs associated for creating and destroying a shared memory with example. [15]

3a) Differentiate between multithreaded programming and single threaded programming.

 b) Explain thread synchronization with semaphores with example . [6+9]

4 Explain the sequence of steps to process various socket functions using TCP protocol with example [15]

**SET-2 IV CSE A & B - Assignment Test LINUX PROGRAMMING Date: 18-10-2012 Marks:50 Time: 90 Min**

***PART-A*: Descriptive - Answer any TWO of the following 2 x 15 =30 MARKS**

1.Explain the kernel data structure for Message queue with a neat diagram. Also explain the APIs associated for message queue with an example program [15]

2. Explain the kernel data structure for semaphores with a neat diagram. Also explain the APIs associated for semaphores with example [15]

3a)Explain the differences between thread and process

 b) List and explain various POSIX APIs for mutex locks manipulation with example [6+9]

4. Explain briey about the following socket APIs with clear syntax:

 (i) socket( ) (ii) bind( ) iii) listen( ) (iv) accept( ) (v)connect( ) [15]