R09

Code: 9A12601

B.Tech IV Year I Semester (R09) Supplementary Examinations, May 2013

LINUX PROGRAMMING

(Electronics and Computer Engineering)

Time: 3 hours Max Marks: 70

Answer any FIVE questions All questions carry equal marks

- 1. (a) Give brief description about the different text processing utility commands.
 - (b) List and explain the internal commands used by sed.
- 2. (a) Discuss in detail about the different meta characters support by shell.
 - (b) What is the role of here documents in shell programming?
- 3. (a) What is an error? Explain in different stream errors with suitable example.
 - (b) Distinguish between file locking and record locking.
- 4. (a) Define a process. Draw and explain the Unix process data structure.
 - (b) With the help of syntax and example explain the wait and waitpid system calls.
- 5. (a) Explain the inter process communication by using pipes.
 - (b) What information will be stored in semaphore table? Draw and explain the Unix kernel data structure for semaphore.
- 6. (a) Write the procedure to interact a client process with server process by using semaphores.
 - (b) With the help of syntax and example explain any three APIs for shared memory by using.
- 7. (a) In what way threads differ from processes created by fork.
 - (b) Explain the synchronization of threads by using semaphores.
- 8. List the various APIs present in socket. Explain them with suitable example.
