

R09**Code: 9A12601**

B.Tech IV Year I Semester (R09) Supplementary Examinations June 2017

LINUX PROGRAMMING

(Electronics & Computer Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions

All questions carry equal marks

- 1 (a) Explain file permission and the ways to ensure security using file permission.
(b) Write a script to find the number of files in a directory.
- 2 (a) Describe input and output redirection operation in LINUX.
(b) Describe the different control structures in programming.
- 3 (a) Describe hard link and soft links.
(b) With the help of neat diagram, explain inode structure of a file.
- 4 (a) Draw the process state diagram and explain the function of scheduler queue.
(b) Briefly describe the syntax and working of the following functions.
kill
Pause
Abort
Sort
What are unreliable signals?
- 5 (a) Explain messaging queues and semaphores.
(b) Describe inter process communication.
- 6 (a) Write briefly about system calls used for message queue and semaphores.
(b) Illustrate with example, concept of shared memory and the kernel support given to implement the concept of shared memory.
- 7 (a) With the help of neat diagram, explain the concept of thread & processes.
(b) Describe light weight processes.
- 8 Write a program to implement echo server and echo client on port number 6789 using connection oriented system calls.
