Code No: F3303 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA III Semester Examinations, January-February 2012 LINUX PROGRAMMING

Time: 3hours

Max.Marks:60

Answer any five questions All questions carry equal marks

- 1. a) Explain briefly about text processing and process utilities.
 - b) Write a short note on awk command.
- 2. a) Briefly describe various shell and environment various.
- b) Write a shell script to count the specified number of lines in a text file without using head command.
- 3. a) Describe the file system structure and different file types in Linux system.b) Compare hard links with soft links.
- 4. Explain various system calls relate to directory management.
- 5. Explain the following system calls with clear syntax and example: a) fork() b) wait() c) exec()
- 6. a) Explain the advantages of fifos over pipes.b) Write a C program to illustrate two way communication using fifos.
- 7. a) Give the structure of a thread.
 - b) Describe posix thread APIs for basic thread manipulation.
- 8. Discuss the socket system calls related to connection oriented protocol.
