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Code No: F3303

7.a

8.a)

b)

b)

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[6+6]

[6+6]

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA III Semester Examinations, January - 2018 LINUX PROGRAMMING

Time: 3hrs Max.Marks:60

Answer any five questions All questions carry equal marks

Explain various process utilities available in linux. 1.a) Write a shell script that deletes all lines containing a specified word in one or more files b) supplied as arguments to it. Explain the kernel support for file system. 2.a) Explain about symlink () function with example program. b) [6+6]Explain various patterns and actions in awk. 3.a) Write an awk script to perform simple arithmetic operation. b) [6+6]Differentiate soft link and hard link with examples. 4.a) Describe usage of dup(), dup2() system calls with example. b) [6+6]What is an orphan process? Write a program to illustrate orphan process. 5.a) Define Signals. What do you mean by Unreliable Signals? Explain. b) [6+6]What is a pipe? Using pipe, how IPC can be implemented. 6.a) Compare the IPC functionality provided by message queues and FIFO's. What b) are the advantages and drawbacks of each? Explain briefly. [6+6]

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Write a C Socket Program for Linux with a Server and Client Example Code.

Differentiate all IPC mechanisms with examples.

Write briefly on Thread synchronization with semaphores.

Write briefly on POSIX threads.