END TERM EXAMINATION

FIFTH SEMESTER [MCA] DECEMBER- 2015

Paper Code: MCA-301

Subject: LINUX Programming

Time: 3 Hours

Maximum Marks: 60

Note: Attempt any five questions including Q.No1 which is compulsory. Select one question from each unit.

(21		
	de	what are Hard links and Symbolic links in LINUX file system? What is the differences between pipe and FIFO? Difference between System call and Standard library functions.	
	19	Write a short note on Process Control Block. Write a short note on Find Command in Linux. What is big-endian and little-endian?	em
Q	2 (a) (b) (c)	Explain the Linux booting process. Differentiate between Linux and Windows.	(4) (3) (3)
19	3 (a) (b)	What is a inode? Explain its structures in brief. Explain Linux architecture. Describe the various Run levels used by Linux and Unix.	(3) (4) (3)
		UNIT-II	
Q4	1 (a)	What are Pipes? Write a program to create a pipe between a parent and its abild	and
	(b)		
	(-)	processes, showing that the two processes are executing independently.	(5)
Ø5	(a) (b)	What is FIFO? Write a program to exchange data between two processes using FII What is a Signal? How the signals are handled?	FO.(6)
	1	UNIT-III	
What is a process? How are you able to get complete information chant all			
1 -	/ /	processes;	1100
	10	How "grep" is different from "sed" script?	(4)
	Jet	Differentiate Unlink, rm and rmdir command.	(3)
07	(a)	Write a shell script to check whather a second	
	(b)	Write a script to cut the range of the particular columns and rows from a file.	(3)
	(c)	Write a script to copy files. Check the possible conditions for the existence fo sou	(3)
		and destination file in the directory.	
			(4)
UNIT-IV			
-Q8	(a)	What is a Socket? State and explain different Socket Types?	(4)
	(b)	What do you mean by Client-Server Architecture? Write steps to establishing socket on the client side and server Side.	g a (6)
09/	(a)	Differentiate between fork() & exec() with example.	
	(b)	Explain connect, bind, accept and listen system calls used in socket programming	(4)
1.0		and the second programming	35(0)

