LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

**M.Sc.** DEGREE EXAMINATION – **COMPUTER SCIENCE**

THIRD SEMESTER – NOVEMBER 2010

# CS 3814 - LINUX PROGRAMMING AND DRIVER DEVELOPMENT

Date : 03-11-10 Dept. No. Max. : 100 Marks

Time : 9:00 - 12:00

PART – A

**ANSWER ALL THE QUESTIONS: 10 X 2 = 20**

1. Define: $HOME.
2. What is the use of shift command?
3. Define the term fread.
4. What is inode number?
5. Define IPC\_RMID.
6. What is critical section of code?
7. Define SOCK\_STREAM.
8. What is curses?
9. Define Minor number.
10. What is character device?

PART – B

**ANSWER ALLTHE QUESTIONS : 5 X 8 = 40**

# a) Write a brief note on arithmetic and parameter expansion.

(OR)

b) Write a shell program to trap interrupt signal.

1. a) Explain the Read and Write system call.

(OR)

b) Write a note on mmap.

1. a) Describe about Message queues.

(OR)

b) Explain about Semaphore.

1. a) What is color pair? Explain.

(OR)

b) Briefly discuss about Socket types.

1. a) What is Device driver? Explain its roles.

(OR)

b) Write a note on modules.

PART – C

**ANSWER ANY TWO: 2 X 20 = 40**

1. a) Discuss the Lists in detail.

b) Explain about device files in detail.

1. a) Discuss the named FIFO with a suitable example.

b) Write a note on the following, (i) bind.(ii) listen. (iii) accept.

1. a) Discuss about splitting the kernel.

b) Explain about shell variables and functions.

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