



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION - COMPUTER SC.

THIRD SEMESTER – NOVEMBER 2011

CS 3814 - LINUX PROGRAMMING AND DRIVER DEVELOPMENT

Date : 04-11-2011
Time : 9:00 - 12:00

Dept. No.

Max. : 100 Marks

PART – A

ANSWER ALL THE QUESTIONS:

10 X 2 = 20

1. Define shell.
2. What is the function of `.(dot)` command?
3. What is command to get inode number of a given file?
4. What is the function of link system call?
5. Define 'mkfifo'.
6. Which function is used to delete shared memory segment?
7. Define AF_INET.
8. What is curses?
9. Define module.
10. What is character device?

PART – B

ANSWER ALL THE QUESTIONS :

5 X 8 = 40

11. a) Explain the input and output redirection with an example.
(OR)
b) Write a note on the following, (i) `exec`, (ii) `export`, (iii) `echo` (iv) `eval`.
12. a) Write a brief note on device file.
(OR)
b) Briefly discuss about `/proc` file system.
13. a) Briefly discuss about semaphore.
(OR)
b) Describe about shared memory.
14. a) Explain about the socket attributes.
(OR)
b) What is the usage of `COLOR_PAIR` function? Explain with an example program.
15. a) Write a brief note on `Scull`.
(OR)
b) What is the role of major and minor number?

PART – C

ANSWER ANY TWO:

2 X 20 = 40

16. a) Discuss control structures in detail.(10)
b) Explain read, write and open system calls. (10)
17. a) Discuss about message queues. (10)
b) What are the system calls used to create socket queue and accept connection.
Explain it with an example program. (10)
18. a) How the kernel is split into different parts? Discuss. (10)
b) Explain shell function with an example program. (10)
