LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE

THIRD SEMESTER – NOVEMBER 2009

CS 3814 - LINUX PROGRAMMING AND DRIVER DEVELOPMENT

Date & Time: 07/11/2009 / 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 eval.
3. Define /usr.
4. What is the use of chown command?
5. Define Pipe.
6. What is critical section of code?
7. Define SOCK_STREAM.
8. What is Curses?
9. Define: minor number.
10. What is device driver?

PART – B

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

11. a) Explain arithmetic and parameter expansion.

(OR)

   b) Write a brief note on shell functions.

12. a) Explain the open system call modes.

(OR)

   b) Write a brief note on device file.

13. a) Write a program to open a named pipe.

(OR)

   b) Describe about Message Queues.

14. a) Write a note on Keypad.

(OR)

   b) What is color pair? Explain.

15. a) What is scull? Explain.

(OR)

   b) Write a note on modules.

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

16. a) Discuss the control structures in detail.
    b) Write a note on the following,
       (i) unlink, (ii) link (iii) symlink (iv) mkdir (v) rmdir

17. a) Discuss about shared memory.
    b) Explain the Socket attributes in detail.

18. a) How the kernel is split in to different parts? Discuss.
    b) Write a shell program to manipulate parameter and environment variables.

****