



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

**M.Sc. DEGREE EXAMINATION - COMPUTER SC.**

**THIRD SEMESTER – APRIL 2013**

**CS 3814 - LINUX PROGRAMMING AND DRIVER DEVELOPMENT**

Date : 07/05/2013

Dept. No.

Max. : 100 Marks

Time : 1:00 - 4:00

**SECTION-A**

**ANSWER ALL THE QUESTIONS:**

**(10 X 2 = 20)**

1. What is the use of test command?
2. Name some parameter variables..
3. Mention the usage of chdir and getcwd.
4. Differentiate fgets() and gets().
5. What is a pipe?
6. State the purpose of msgctl().
7. What are stream sockets?
8. List the library functions used for initialization and termination in curses.
9. What is scull?
10. Define Kernel space.

**SECTION-B**

**ANSWER ALL THE QUESTIONS:**

**(5 X 8 =40)**

11. a) Explain the looping structures in shell scripts with examples.  
(OR)  
b) Write a shell script to explain the usage of user defined functions.
12. a) Explain File related system calls with examples.  
(OR)  
b) Discuss in brief about formatted input and output.
13. a) Explain the library functions used in shared memory.  
(OR)  
b) Elaborate the usage of process pipes.
14. a) Discuss in brief about the socket connections.  
(OR)  
b) Explain the implementation of **Keypad** in curses.
15. a) Explain the classes of devices and modules.  
(OR)  
b) Discuss in brief the Kernel's position in Linux file structure and splitting of the kernel.

**SECTION-C**

**ANSWER ANY TWO QUESTIONS:**

**(2 X 20 = 40)**

16. (a) Elaborate the usage of Pipes and redirections in Linux. (10)  
(b) Discuss in brief about the file and directory maintenance with examples.(10)
17. (a) Discuss in detail about Interprocess communication with Named Pipes. (10)  
(b) Explain about the creation and usage of Semaphores. (10)
18. (a) Elaborate the role and purpose of device drivers. (10)  
(b) Discuss about the main library functions involved in controlling the movement, deletion and output of curses in detail. (10)

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