



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

**B.Sc.,B.C.A. DEGREE EXAMINATION – COMPUTER SCIENCE & COMP.APP.**

**FIFTH SEMESTER – NOVEMBER 2017**

**CS 5406/CA 5406 - LINUX AND SHELL PROGRAMMING**

Date: 15-11-2017  
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

**PART -A**

**Answer ALL questions**

**10 x 2 = 20**

1. What is Shell Script?
2. Define Pipes.
3. List out any two file conditions.
4. Write the syntax for Case statement.
5. Write any two Device files.
6. What is the work of fseek function?
7. Define: Process.
8. Write the syntax for creating a new process.
9. What are Sockets?
10. Write the two important semaphore variables.

**Part B**

**Answer ALL questions**

**5 x 8 = 40**

11 a) How parameter variables created? Explain with an example

(OR)

b) Explain the Shell architecture with a neat diagram.

12 a) Write notes on Linux file structures .

(OR)

b) Write about Arithmetic expansions.

13 a) Discuss about File and Directory maintenance system commands.

(OR)

b) Explain the Date and Time functions.

14 a) How is a new process created in Linux? Explain.

(OR)

b) Explain about the Pipe call functions.

15 a) Explain Shared memory concept with its relevant functions.

(OR)

b) Discuss about message Queues.

**Part C**

**Answer any TWO questions**

**2 x 20 = 40**

16 a) Describe about Environmental variables with their syntax.

b) Briefly discuss about the various types of control structures used in Linux..

7 a) Explain briefly about standard I/O Library functions..

b) Write brief notes on Process structures.

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18 a) Discuss about Socket creation with related system calls.

b) Explain the named pipes with its functions.

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