



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

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

**FIFTH SEMESTER – APRIL 2019**

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

Date: 24-04-2019  
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

**PART-A**

**Answer all the questions:**

**10X2=20 Marks**

1. What is a Shell?
2. Define : \$HOME
3. Write any four Linux shell commands.
4. List out any two file conditions.
5. List the low-level functions used to access the device drivers and the system calls
6. What is an argument?
7. What is fork?
8. Define the term pipe
9. List the types of semaphore.
10. What are Client and server?

**PART-B**

**Answer all the questions:**

**5X8=40 Marks**

11. a)What is Linux system?  
(OR)  
b) Write short notes on redirection of standard input and output.
12. a)Explain the Linux structure in detail.  
(OR)  
b) List some of the system variables.
13. a) Write a program to create a file locking.  
(OR)  
b) Explain in short about the standard libraries and system calls that provide a complete Control over the creation and maintenance of files and directories.
14. a) Write in brief about process structure?  
(OR)  
b) Explain named pipe with a suitable example.
15. a) Give short notes on shared memory.  
(OR)  
b) Write about message queue functions.

**PART-C**

**Answer any two questions:**

**2X20=40 Marks**

16. a)Discuss in detail about environment variables and Parameter variables with examples.  
b) Explain in brief about control structures with examples.
17. a)Discuss in detail about standard I/O library.  
b) What are the functions used for maintainace of files and directories.
18. a)Write a program to illustrate parent and child process.  
b) Explain in detail about socket.

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