



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

**B.Sc.DEGREE EXAMINATION – COMPUTER SCIENCE**

**FIFTHSEMESTER – APRIL 2018**

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

Date: 08-05-2018  
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

**PART – A**

**10x2 = 20 marks**

**Answer all the questions:**

1. What is Linux?
2. What is shell script?
3. Write the syntax for user defined function
4. Write any four library functions.
5. What is low level file access?
6. Write the Linux command to display the current date and time.
7. What is process?
8. What is pipe call?
9. What is semaphore?
10. What is socket? Mention the use of it.

**PART – B**

**5x8 = 40 marks**

**Answer all the questions:**

- 11.a) Write a short notes on shell programming.  
(or)  
b) Write a shell script to find out the factorial of the given number.
- 12.a) Write a Linux shell script to create user defined function.  
(or)  
b). Write a Linux shell script to perform all basic arithmetic operation.
13. a) Write short notes on input and output library.  
(or)  
b). Explain about file locking.
14. a) Explain about process structure.  
(or)  
b) Write short notes on named pipes.
15. a) Write short notes on message queues.  
(or)  
b) Write the procedure to create socket..

**PART- C**

**2x 20 =40 marks**

**Answer any two questions:**

16. a). Explain in detail about different types of variables in Linux.  
b). Discuss about Linux file structure in detail.
  
- 17.a) Explain in detail about file and directory maintenance.  
b). Discuss in detail about inter process communication..
  
18. a) Explain in detail about socket communication.  
b). Write a Linux shell script to find out the factorial of the given number.