



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIFTH SEMESTER – NOVEMBER 2016

CS 5406/CA 5406 – LINUX AND SHELL PROGRAMMING

Date: 11-11-2016

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

PART-A

Answer all the questions:

(2X10=20 Marks)

1. What is a Shell?
2. List the available common shells.
3. Write about echo and eval command
4. List the uses of exec.
5. What is the purpose fflush?
6. What is file locking?
7. Define the term process.
8. How to view the status of the process?
9. Define the term semaphore.
10. What is a socket?

PART-B

Answer all the questions:

5X8=40 Marks

11. a) How to you create and execute shell scripts with an example?
(OR)
b) Write in brief about environment variable in Linux.
12. a) List the file conditionals.
(OR)
b) Give short notes on any two control statements in Linux with examples.
13. a) Write short notes on any one file descriptor in low level file access.
(OR)
b) Write about the formatted input and output conversion specifiers.
14. a) Explain the process structure with a neat diagram.
(OR)
b) Write in short notes on named pipe with an example.
15. a) Write in brief about the types of sockets.
(OR)
b) Write about message queue functions.

PART-C

Answer any two questions:

2X20=40 Marks

16. a) Discuss about pipes and redirections with example.
b) Explain Linux file structure.
17. a) Discuss File and directory maintenance.
b) Explain parent and child process with an example.
18. a) What is shared memory? Write about the functions of the shared memory.
b) What is Linux? List the advantages and disadvantages of Linux.
