



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE

FIRST SEMESTER – NOVEMBER 2014

CS 1826 - LINUX PROGRAMMING

Date : 08/11/2014
Time : 01:00-04:00

Dept. No.

Max. : 100 Marks

PART – A

Answer ALL the questions:

10 x 2 = 20

- 1) List out three condition types.
- 2) What is the default shell in Red hat?
- 3) List the types of device files.
- 4) What is the use of : command?
- 5) What are the functions used to access the environment variables?
- 6) Define: malloc.
- 7) What is process identifier in a process table?
- 8) Define Pipe.
- 9) What is semaphore?
- 10) What are the attributes of Socket?

PART – B

Answer ALL the questions

5 x 8 = 40

- 11) a) Write in brief about arithmetic comparison.
OR
b) Explain briefly about Shell variables.
- 12) a) Write notes on 'open' system call.
OR
b) Describe about Linux file structure.
- 13) a) Explain briefly about temporary storage files.
OR
b) Write notes on simple memory allocation.
- 14) a) Describe about Named pipe.
OR
b) Explain about the lock files with an example.
- 15) a) Explain about shared memory.
OR
b) Write notes on the following:
i) msgsnd ii) msgrcv.

PART – C

Answer any TWO questions:

2 x 20 = 40

- 16) a) Discuss the shell control structures in detail. (10 marks)
b) Write a shell script to manipulate environment variables. (10 marks)
- 17) a) Explain the getenv and putenv with suitable examples. (10 marks)
b) Explain Client-Server FIFO with a suitable example program. (10 marks)
- 18) a) Write notes on the following
i) bind ii) listen iii) accept (10 marks)
b) Discuss about the Shell Lists in detail. (10 marks)

