LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION –COMPUTER SCIENCE

FIRST SEMESTER – APRIL 2018

CS 1826– LINUX PROGRAMMING

Date: 25-04-2018   Dept. No.   Max. : 100 Marks
Time: 09:00-12:00

PART – A

ANSWER ALL THE QUESTIONS: **10X 2 = 20**

1. List the types of Linux standard Shell?
2. Write the three condition types.
3. How do you execute shell script in the current shell?
4. What are the types of device files?
5. Define : $PATH.
6. What is dynamic memory?
7. List any two differences between physical memory and logical memory.
8. What is a pipe?
9. Define the term semaphore.
10. Give the types of host and network byte ordering.

PART – B

ANSWER ALLTHE QUESTIONS: **5X 8= 40**

11.a) Write in brief about arithmetic comparison.
          (OR)
11. b) Write a shell script to display student details with the calculation of exam fees and semester fees.

12.a) Explain briefly about Shell variables.
          (OR)
12.b) Write about about I/O functions.
13. a) Write in brief about environment variables
          (OR)
13. b) Explain in brief about time and date.
14.a)Write in short about File Locking with an example.
          (OR)
14. b)Explain in brief about process structure with a neat diagram.

15.a)write the various functions of shared memory with examples .
          (OR)
15.b)What are the different types of message queue functions?

PART – C

ANSWER ANY TWO: **2 X 20 = 40**

16. a) Discuss the shell control structures with examples.
b) Write about Linux file structure.
17. a) Discuss about simple memory allocation.
b) Explain about parent and child process using fork system call.
18. a)Discuss in detail about socket and its types with examples.
b) Explain in detail about semaphores and its types.

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