LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE

FIRST SEMESTER – NOVEMBER 2015

CS 1826 - LINUX PROGRAMMING

Date : 11/11/2015   Dept. No.   Max. : 100 Marks
Time : 01:00-04:00

PART-A

Answer all the questions: **2X10=20 Marks**

1. What is Linux?

2. List the types of shells.

3. State any two file conditions.

4. Give any four Linux shell commands.

5. Define : process

6. State any four commonly used conversion specifiers of printing

7. Define: pipe.

8. What is a named pipe?

9. What are the types of semaphore?

10. Give the syntax to create a socket.

PART-B

Answer all the questions: **5X8=40 Marks**

11. a) Write in brief about Redirections with an example.

(OR)

   b) What is a variable? Explain in brief about environment variables in linux.

12. a)Explain the for and while control structures with examples

(OR)

   b) Give short notes on arithmetic and Parameter expansion with examples.

13. a) List the standard I/O libraries.

(OR)

   b) Explain in short about the standard libraries and system calls used for files and directories

   maintainence

14. a) Write about date and time augments with examples

(OR)

   b) Explain named pipe with a suitable example.

15. a) Write short notes on semaphores.

(OR)

   b) Write about message queue functions.

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PART-C

16. a) Discuss about Shell Programming with example.

    b) Explain about conditional statements of Linux with example.

17. a) Discuss in detail about File locking mechanisms in Linux.

    b) Explain about FIFO with an example.

18. a)Write in detail about shared memory with an example

    b) Discuss about sockets.

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