LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – **COMPUTER APPLICATIONS**

SECOND SEMESTER – NOVEMBER 2016

CA 2807 - OPERATING SYSTEMS

Date: 11-11-2016   Dept. No.   Max. : 100 Marks
Time: 01:00-04:00

PART – A

Answer ALL questions: **10* 2 = 20**

1. Define Operating System

2. What is the use of wc command?

3. Give the syntax for **if** statement in shell programming

4. Compare utmp and wtmp file

5. Write the lstat function and its use.

6. What are the fields in the password file?

7. Define Deadlock

8. How to calculate Turnaround time

9. List out the functions of Application layer in OSI model?

10. Write the Traceroute command and its use.

PART – B

Answer ALL questions: **5* 8 = 40**

11. a) Explain the file processing commands in UNIX.
     (or)
    b) Explain about looping statement in Shell programming.
12. a) Write short notes on Symbolic file.
     (or)
    b) Write short notes on the following.   i) Password file   ii) Group File
13. a) Write short notes on FIFO
     (or)
    b) Explain the concept of Shared memory in Inter-Process Communication.
14. a) Explain the different states of process in detail.
     (or)
    b) Discuss Round Robin scheduling algorithm in detail.
15. a) Write short notes on basic socket functions of OSI
     (or)
    b) Write short notes DNS.

PART – C

Answer any TWO questions   **2 * 20 = 40**

16. a) Discuss in detail about the conditional statements in Shell programming

    b) Explain the concept of File sharing in detail

17. a) How process synchronization can be achieved using semaphore? Explain.

    b) Discuss Memory management techniques in detail

18. Discuss all the functions of TCP sockets – 20 Marks

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