LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

SECOND SEMESTER – **APRIL 2015**

CA 2807 - OPERATING SYSTEMS

Date : 25/04/2015   Dept. No.   Max. : 100 Marks
Time : 01:00-04:00

PART – A

Answer ALL questions: 10* 2 = 20

1. What are the goals of OS?

2. What is the use of *grep* command?

3. Give the syntax for*for* loop in shell programming.

4. Compare *utmp* and *wtmp* file.

5. Distinguish between *fstat* and *lstat* function.

6. What are the fields in the password file?

7. Define Thread.

8. Define Response time.

9. Compare TCP and UDP.

10. What is socket?

PART – B

Answer ALL questions: 5* 8 = 40

11. a) Explain the architecture of UNIX in detail.

(or)

   b) Write a shell program to display the student mark statement.

12. a) Discuss File access permissions in detail.

(or)

   b) Write short notes on the following

        i) Password file   ii) Group File

13. a) Write short note on

        i)   Process state transition   ii) Process control block.

(or)

   b) Explain the concept of Shared memory in Inter-Process Communication.

14. a) Explain Static and Dynamic Partition in memory management.

(or)

   b) Discuss Round Robin scheduling algorithm in detail.

15. a) Explain Raw socket and its relevant functions.

(or)

   b) Discuss the functions of each layer in OSI reference model.

PART – C

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

16. a) Discuss the looping control statements in Shell programming.

    b) Discuss the different File types in detail.

17. a) Explain in detail about Inter Process Communication using Pipes.

    b) Discuss Memory management techniques in detail.

18. Give an account of all the functions of UDP sockets – 20 Marks.

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