



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

SECOND SEMESTER – APRIL 2018

17/16PCA2MC05- OPERATING SYSTEMS

Date: 25-04-2018
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART – A

Answer ALL questions:

10* 2 = 20

1. What is a Distributed operating system?
2. What are the scheduling objectives?
3. What are the memory management strategies?
4. Write the syntax for *if-else* statement in shell programming
5. What do you mean by file descriptor?
6. What is symbolic link?
7. Comment on Mutex
8. What is Semaphore?
9. What are functions of Transport layer?
10. What are the basic socket functions?

PART – B

Answer ALL questions:

5* 8 = 40

11. a) Explain the various functions of Operating System.

(or)

b) Write short notes on Preemptive scheduling algorithm.

12. a) Discuss the different kinds of buffering.

(or)

b) Explain the functions related to login accounting and system identification.

13. a) Explain all functions related to files and directories.

(or)

b) Write short notes on different file types.

14. a) Explain the different types of Signals and its functions

(or)

b) Discuss Thread synchronization in detail.

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

(or)

b) Write short notes on UNIX networking commands.

PART – C

Answer any TWO questions

2 * 20 = 40

16. a) Discuss Non-preemptive scheduling algorithm in detail.

b) Explain the concept of Paging in memory management.

17. a) Explain the concept of file system in detail

b) Discuss Deadlock avoidance techniques in detail.

18. Discuss all the functions of TCP sockets.

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