LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



M.C.A.DEGREE EXAMINATION - COMPUTER APPLICATIONS

SECONDSEMESTER - APRIL 2018

CA 2807- OPERATING SYSTEMS

Date:	25-04-2018	
Time:	01:00-04:00	

Dept. No.

Max.: 100 Marks

PART - A

Answer ALL questions

10*2 = 20

- 1. Define Operating system.
- 2. Write UNIX command used for Networking.
- 3. Write the syntax for do-while loop in shell programming
- 4. Distinguish between *open* and *creat* functions?
- 5. What is the use of fork function?
- 6. What are the methods for Deadlock avoidance?
- 7. Define Thread.
- 8. Draw the Process state transition diagram.
- 9. What is Throughput?
- 10. Write any four basic socket functions

PART - B

Answer ALL questions

5*8 = 40

11. a) Explain file access permissions in UNIX.

(or)

- b) Explain *if-else statement* in Shell programming with an example
- 12. a) Discuss File Sharing in UNIX.

(or)

- b) Explain different types of buffering in UNIX.
- 13. a) Explain the concept of FIFO for Inter-Process Communication.

(or)

- b) Write short notes on the following
 - i) Password file ii) Group File
- 14. a) Explain Single contiguous allocation of memory

(or)

- b) Discuss the Non-preemptive Scheduling policies in detail.
- 15. a) Write short notes on Raw sockets

(or)

b) Discuss OSI reference model in detail.

PART - C

Answer any TWO questions

2 * 20 = 40

- 16. a) Explain the Architecture of UNIX operating system with a neat diagram.
 - b) Discuss the different File types in detail
- 17. a) Discuss the concept of thread synchronization with an example.
 - b) Discuss the concept of Paging in detail
- 18. Discuss all the functions of TCP sockets 20 Marks

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