

MAY 2016

**P/ID 17467/RCT/
PCAO**

Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

1. (a) Write a short note on System design and implementation.

Or

- (b) Give a Short note on Dual mode Operation.

2. (a) What are the four conditions where deadlock occurs? How it can be prevented?

Or

- (b) How multiprocessor is scheduled? Give a note.

3. (a) What is Swapping a process? Give a note on swapping two process using a disk.

Or

- (b) What is Thrashing? Give a note on causes of Thrashing.

4. (a) Write a note on Access controls.

Or

(b) What are the algorithms used for directory implementation? Give a note on them.

5. (a) Write about Unix file structure? Write about it.

Or

(b) How to create and remove directory in Unix? Give a note.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

6. Discuss on :

(a) System calls

(b) System programs

(c) System design and implementation.

7. What are the classic problems of synchronization? Explain.

8. What are the scheduling algorithms? Explain them.

9. What is segmentation? Explain page segmentation.

10. Summarise the paging concept.
 11. Explain Disk Scheduling and its algorithm.
 12. What is Unix? How to access Unix systems? Write a note on Unix shell.
 13. Explain Directory Structure.
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