

MAY 2014

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

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Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

1. (a) What is real time system? Explain.

Or

(b) What are operating system services?

2. (a) List and explain the requirements to solve critical section problem.

Or

(b) What is critical section? Give an example.

3. (a) What are the parameters related to disk scheduling?

Or

(b) Explain 'Scan Scheduling'.

4. (a) What is file descriptor? Explain.

Or

(b) Explain the queued and basic access methods.

5. (a) Explain the Kernel of Unix.

Or

(b) Explain the different unix's shell commands.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

6. What are system calls? Explain.
7. Explain the criteria for scheduling.
8. Discuss on the problem of synchronization.
9. Explain 'deadlock avoidance'.
10. Discuss on 'segmentation with paging'.
11. Explain the implementation issues of a file system.
12. Explain in detail Unix's process management.
13. Discuss on the features of MS-DOS operating system versions?

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