

MAY 2013

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

Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

All questions carry equal marks.

1. (a) Explain the features of time sharing.
Or
(b) List out and explain the uses of system calls.
2. (a) What are the different scheduling concepts? Explain.
Or
(b) Discuss on the classical problem of synchronization.
3. (a) Write about pages segmentation.
Or
(b) Explain the structure of the disk.
4. (a) How can files be protected?
Or
(b) Write about different file accession methods.

5. (a) Write down the salient features of MS-DOS.

Or

- (b) What is kernel? Write about its function in Unix.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

All questions carry equal marks.

6. Explain the general architecture of operating systems.
7. Explain the steps involved in CPU scheduling.
8. Explain deadlock avoidance.
9. Describe the storage hierarchy in detail.
10. Write and explain any one disk scheduling algorithm used in multitasking operating system.
11. Describe the directory structure of files.
12. Summarize the different file operations in Unix.
13. Explain the following in detail.
 - (a) Swapping
 - (b) Semaphores.