

DECEMBER 2014

**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 Distributed Systems.

Or

(b) Describe System design and implementation.

2. (a) Give a note on Process concept.

Or

(b) What are the four conditions for deadlock to occur? How it can be prevented?

3. (a) Give a note on the structure of the Page table.

Or

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

4. (a) Give a note on encryption.

Or

(b) Write a short note on file system operation.

5. (a) What is MS-DOS? List out some MS-DOS commands.

Or

- (b) What is Unix? How to access Unix systems?

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

6. Explain hardware protection of a system.
7. What are scheduling algorithms? Explain them.
8. What is segmentation? Explain page segmentation.
9. What are the characteristics of deadlock? How to detect, prevent and avoid deadlock?
10. What is process and process state? Explain Process scheduling.
11. Explain Disk Scheduling and its algorithm.
12. Discuss on file access method and protection.
13. How to create and remove directory in Unix? Explain file structure in Unix.