

OCTOBER 2013

P/ID 17416/RBT

Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

1. (a) Give the components of a computer systems.

Or

(b) Write a note on multiprogramming.

2. (a) Define process and with its various states.

Or

(b) Write note on 'CPU scheduler'.

3. (a) Give the use of resource allocation graph.

Or

(b) Give any one page table structure.

4. (a) Define file. List all possible operations on it.

Or

(b) Explain the directory structure.

5. (a) Explain the inode of Unix OS.

Or

- (b) What is the use of microchannel in MS-DOS.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

6. Discuss with an example a distriected system.
7. Explain 'system design and implementation'.
8. Explain the following scheduling algorithms.
- (a) FCFS
 - (b) SJF
 - (c) RR.
9. Explain the Banker's algorithm for deadlock avoidance.
10. Discuss in detail 'contiguous memory allocation'.
11. Explain the different file organizations.
12. Discuss the memory management of Unix.
13. Discuss on 'working with disks and directories in MS-Dos'.