

MAY 2012

P/ID 17416/RBT

Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

All questions carry equal marks.

1. (a) Write about Real-Time systems.
Or
(b) Explain the General System Architecture briefly.
2. (a) What are the necessary conditions to be approached for deadlock prevention?
Or
(b) Write a short note on semaphores.
3. (a) Write about thrashing.
Or
(b) Write short note on Disk scheduling.
4. (a) What are the various access method in files?
Or
(b) Describe programmer interface in UNIX.

5. (a) Write short note on Encryption.

Or

(b) Explain I/O system in UNIX.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

All questions carry equal marks.

6. Discuss on Hardware Protection.

7. Explain Scheduling algorithms.

8. Describe Deadlock Characterization.

9. Discuss on Contiguous allocation.

10. What are the various types of allocation methods?
Explain in detail.

11. Describe Directory structure.

12. Describe file systems in UNIX.

13. Explain the Interprocess communication in UNIX.