

MAY 2011

**P/ID 17416/RBT**

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Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

All questions carry equal marks.

1. (a) What is a time sharing system? Compare time sharing and real time operating systems.

Or

- (b) What is system calls? List the various system calls. Discuss any one.

2. (a) What is a process? Discuss on concurrent process.

Or

- (b) What is deadlock? How deadlock can be avoided? Discuss.

3. (a) What is page fault? How page fault can be avoided? Discuss.

Or

- (b) What is disk scheduling? List the various disk scheduling algorithms. Discuss any one.

4. (a) What is a file? Discuss the various file operations.

Or

- (b) What is encryption? Discuss any one encryption techniques.

5. (a) What is DOS? Discuss any one DOS.

Or

- (b) Compare MS DOS and UNIX.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

All questions carry equal marks.

6. What is an operating system? Discuss the evolution of the present day operating system.
7. What is scheduling? What are the different parameters to be considered while comparing different scheduling techniques? Discuss any two scheduling algorithms.
8. What is interprocess communication? Discuss the issues related to interprocess communication.
9. With necessary diagrams explain paging.

10. Discuss on the following :
    - (a) Thrashing
    - (b) Swaping
    - (c) Virtual memory.
  11. Discuss any two file access methods.
  12. Write short note on UNIX operating system.
  13. Discuss on the following :
    - (a) Semaphore
    - (b) File protection.
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