
OPERATING SYSTEMS

Time : Three hours

Maximum : 100 marks

PART A — (6 × 5 = 30 marks)

Answer any SIX questions.

1. Discuss the need for the operating system.
2. What is a process? How does the OS represent a process in memory?
3. What do you mean by scheduling?
4. Explain any two scheduling algorithm.
5. What do you mean by Deadlock? Explain the problem occur in deadlock.
6. Explain Banker's Algorithm.
7. What do you mean by swapping?
8. Explain Page memory allocation.
9. Explain the different access methods in the file.
10. Explain any five DOS commands used to working with directories.

PART B — (4 × 10 = 40 marks)

Answer any FOUR questions.

11. Explain protection requirement for I/O and memory.
 12. Discuss the structure of the Operating System.
 13. Explain the Analytic evaluation method.
 14. Discuss the role of semaphore with an example.
 15. What do you mean by thrashing?
 16. Explain Unix file system.
- PART C — (2 × 15 = 30 marks)**
- Answer any TWO questions.
17. Explain the method to prevent and avoid Dead lock.
 18. (a) What do you mean by multiprogramming operating system and distributed operating system?
(b) Explain in detail about Replacement policies.
 19. Briefly explain the Interprocess communication.