Time : Three hours   Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1.   Define Multiprogramming.

2.   What is Process?

3.   What is swapping?

4.   What is semaphore?

5.   Define virtual Memory.

6.   What is paging?

7.   What is meant by File System?

8.   What is I/O system?

9.   What is a device driver?

10. Define Demand paging.

11. Write the need of kernel I/O subsystem.

12. Define: Encryption.

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PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Discuss the functions of operating system.

14. Operating system is a resource manager-Discuss.

15. Elaborate on scheduling criteria.

16. What are fragmentation and storage compaction?

17. Explain the concept of contiguous allocation.

18. Describe the functions of file Management.

19. Write short Note on Thrashing.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Explain in detail about Round-Robin scheduling.

21. Write a detail note on deadlock Prevention.

22. Explain paging in detail.

23. Explain the various file access methods.

24. Discuss the file security and protection problems handled by operating systems.

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