
OPERATING SYSTEMS

Time : Three hours

Maximum : 100 marks

PART A — (6 × 5 = 30 marks)

Answer any SIX questions.

1. What is an operating system? Explain about early operating system in detail.
2. Explain about scheduling queues.
3. What is RAG? Explain.
4. Explain about memory management technique with respect to uniprocessing.
5. What is paging? Explain.
6. What is a file? Explain its types.
7. Explain ISAM.
8. Write the salient features of DOS.
9. Write short notes on pipelines, filters and shell scripts in UNIX.

PART B — (4 × 10 = 40 marks)

Answer any FOUR questions.

10. Explain about DMA in detail.
11. What do you mean by Hierarchy of process?
12. How to avoid deadlock? Explain.
13. Explain about segmentation.
14. Explain about directory system.
15. Explain about nodes and mapping with file descriptor.

PART C — (2 × 15 = 30 marks)

Answer any TWO questions.

16. Explain Scheduling Algorithm in detail.
17. Explain about Partition Allocation.
18. Write Short Notes on :
 - (a) Page Replacement Algorithm.
 - (b) File Allocation methods.