

Subject Title: Operating Systems

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Unit - I:

Short Answer Type:

1. Services of an OS
2. Define Pipe
3. What is Critical Section Problem? Give an example.
4. What is Multi processor OS?
5. Process State.
6. Time sharing system.

Long Answer Type:

7. What is an IPC? Explain Producer Consumer problem.
8. What is critical section problem? Explain Peterson's algorithm.
9. What is system call? List the types of system calls.
10. Explain the OS services and OS structure.
11. Types of OS.
12. IPC through shared memory.
13. IPC through message passing.

Unit - II:

Short Answer Type:

14. Write about the scheduling Criteria.
15. Explain deadlock. State the occurrence of deadlock.
16. Resource Allocation Graph.
17. Starvation.

Long Answer Type:

18. Detection and recovery from deadlock occurrence.

19. Scheduling algorithms. With examples.

20. Types of scheduling.

Unit - III:

Short Answer Type:

21. Paging.

22. Demand paging.

23. Virtual memory. Advantages of Virtual memory.

24. Logical addresses.

25. Fragmentation.

26. Thrashing.

27. File Management.

Long Answer Type:

28. Swap space management. Write any one algorithm.

29. RAID Structure? State the levels

30. Free space management. Write any one algorithm.

31. Structure and uses of segmentation and paging.

32. Discuss various file allocation methods.

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