

Important Questions Unit -03 CS 405

OPERATING SYSTEM

Very High Probability

1. Draw Process State Diagram.
2. Explain PCB.
3. Compare Thread and Process.
4. Explain Types of Schedulers.
5. FCFS Scheduling Numerical.
6. Round Robin Scheduling Numerical.
7. Paging vs Segmentation.
8. FIFO Page Replacement Numerical.
9. LRU Page Replacement Numerical.
10. Optimal Page Replacement Numerical.

High Probability

11. Virtual Memory.
12. Demand Paging.
13. Overlay.
14. Dynamic Linking and Loading.
15. Scheduling Evaluation Criteria.

Expected Short Notes

16. Thread Control Block.
17. Multiprocessor Scheduling.
18. Process Management Activities.
19. Swapping.
20. Paged Segmentation.

Unit 3 Priority Order

Tier-1 (Must Prepare)

- ✓ Process State Diagram
- ✓ PCB
- ✓ FCFS/SJF/RR/SRTF Numericals
- ✓ Threads vs Process
- ✓ Paging
- ✓ Segmentation
- ✓ Page Replacement Algorithms

Tier-2

- ✓ Virtual Memory
- ✓ Demand Paging
- ✓ Overlay
- ✓ Dynamic Linking & Loading

Tier-3

- ✓ Multiprocessor Scheduling
- ✓ Swapping
- ✓ Partitioning
- ✓ Paged Segmentation

This is the complete Unit-3 PYQ mapping from all uploaded CS-405 papers (June 2022 → June 2025).