

OO ANTAVAA MAMA

Unit 2

1. Process Synchronization(Peterson's Solution and hardware based solution)
2. Semaphore,usage and it's types.
3. Dining Philosophers problem
4. Producer Consumer problem
5. Readers writer Problem

Unit 3

- 1.Physical address and logical address
2. Contiguous Memory management (Static and Dynamic partition)
3. First,best and worst fit algorithms in dynamic partition
4. Fragmentation and it's types
5. Non contiguous Memory management
6. Paging
7. Structure of page table
8. Segmentation

Round Robin

Bankers algorithm

Semaphore

Process synchronisation

Paging

Segmentation

Multi level feedback and scheduling

Deadlock and resource allocation

OS important questions

Unit-2

12m

Cpu scheduling problem**

Banker's algorithm**

Classical problem of Synchronised

Unit-3

Peagin**

Memory allocation schemes

Segmentation**

Semofour

4-marks

Peters and solutions

Multi-level feedback and queue

Deadlock - all concepts

Dynamic storage allocation

Swapping

Internal and external fragmentation

TOPICS to CONCENTRATE.

1. Process Synchronization
2. Classical Problems of synchronization – Readers writers problem, Bounded Buffer Problem, Dining Philosophers problem (Monitor)
3. Semaphores
4. CPU Scheduling Algorithms - FCFS, SJF, Priority scheduling, Round robin, Multilevel queue Scheduling, Multilevel feedback Scheduling, Gantt Chart

5. Deadlocks, Resource allocation graph, Deadlock Avoidance, Detection and Recovery
6. Memory Management, Address Binding, Contiguous Memory allocation, Non-Contiguous Memory allocation
7. Fragmentation, Internal Fragmentation and External Fragmentation problems
8. Paged memory management, Paged Table, Page Map Table
9. Paging with respect to ARM and Intel Architectures
10. Segmentation, Segmented memory management, Paged segmentation Technique

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