Question Bank

1 Describe reasons for process termination.
2 Explain Serial Processing and Batch Operating systems with suitable diagrams and examples.
3 Explain Multithreading. List out benefits of threading.
4 Draw and explain seven state model in brief.
5 Explain producer consumer problem with code and solution with semaphore.
6 Discuss scheduling? Explain criteria and purpose of CPU scheduling.
7 Explain paging with its need and mechanism of paging.
8 Explain any two Non pre-emptive CPU scheduling algorithms with examples.
9 Differentiate: Fixed Partitioning and Dynamic Partitioning techniques
10 Explain Pile and sequential file organization methods in detail
11 What are the necessary conditions for the deadlock? Explain each one in brief.
12 Explain dining philosopher problem and solution with semaphore.
13 Explain the queuing diagram used for five state process models.
14 Explain FCFS and SSTF disk scheduling algorithm with suitable examples.
15 Explain Dynamic memory Partitioning technique in detail with suitable diagram.
16 Differentiate : Process Vs. Thread
17 Explain the difference between Simple paging and virtual memory paging.
18 What is semaphore? Differentiate: strong semaphore and weak semaphore.
19 Explain producer consumer problem with infinite buffer and circular buffer
20 Explain Page table and segment table entries for virtual memory.
21 What is RAID? Explain all types of levels of RAID with suitable diagrams.
22 Discuss buffering? Explain Types of buffering.
23 Explain typical elements of process control block.
24 Explain deadlock prevention strategies.
25 Discuss producer consumer problem
26 Explain shortest job first method in brief.
27 Explain Page replacement algorithm in detail
28 What is file sharing? What issues are there for file sharing? Explain in depth.