1. Explain demand paging.
2. Explain in brief:RAID
3. Differentiate between paging and segmentation.
4. What is mutual exclusion? Explain hardware approaches for it.

5. Solve producer consumer problem using Semaphores
6. what is Semaphore? Explain different types of Semaphore
7. What is DL & State necessary conditions for DL
8. Explain various ways to prevent DL
9. Explain DL detection & avoidance techniques
10. Draw and explain disk performanceparameters.
11. Explain difference between external fragmentation and internal fragmentation.
12. how to solve fragmentation problem using paging?
13. Explain critical section problem.explain the hardware solution to achieve the same.
14. Explain memory allocation strategires with suitable examples
15. Write short notes on principles of concurrency,segmentation,paging
16. Explain paging in detail. Describe how logical address is converted into physical address
17. What is semaphore and its types? How the classic synchronization problem -Dining philosopher is solved using semaphores?
18. Explain memory fragmentation
19. Explain about IPC.
20. What is the content of page table? Explain
21. Explain with suitable example, how virtual address is converted to physical address?
22. What is virtual memory technique? Discuss segmentation with example
23. List page replacement algorithms? Explain anyone page replacement algorithms with example
24. **For the following resource allocation table consider operating system has 3 resources.the no.of instances available for each resource type are(7,7,10).determinethe safe sequence of process.**

process	Current allocation			Max		
P1	**2**	**2**	**3**	**3**	**6**	**8**
P2	**2**	**0**	**3**	**4**	**3**	**3**
P3	**1**	**2**	**4**	**3**	**4**	**4**

25.