OS

Module	Marks
1	**10**=5x2
2	**17**=12+5
3	**14**=9+5
4	**14**=9+5
5	**9**

Module 3

5 marks questions

1. Explain safety algorithm
2. Discuss resource request algorithm
3. Explain bounded buffer problem reader write a problem
4. Discuss deadlock detection ,deadlock recovery and deadlock prevention
5. Explain bankers algorithm and its data structures
6. Define deadlock explain the necessary conditions
7. Describe peterson and solution for synchronization
8. Describe dining philosopher problem

9 marks questions

1. Illustrate bankers algorithm
2. Describe classical problems
3. Describe critical section problem with necessary conditions
4. Discuss deadlock prevention recovery and avoidance

Module 4

5 marks question

1. Short note on segmentation fragmentation ,Paging
2. Describe the concept of dynamic linking dynamic loading

3. What is logical and physical address space
4. What is demand paging
5. What is page fault in swapping swap in swap out
6. Discuss the problems of continuous memory allocation
7. Compare best ,worst,first field
8. Describe page replacement algorithm with an example

9 marks

1. Describe demand paging concept with diagram
2. Describe swapping process with diagram
3. Describe page table implementation structure
4. Describe various file Access methods
5. Describe frame allocation algorithms
6. What is page fault explain the procedure of handling the page fault with the help of an diagram
7. Page replacement algorithm problems
8. Comparison between optimal,FIFO,LRU

Module 5

9m

1. Explain file structure
2. Explain disc scheduleing process
3. Describe various directory structures
4. Explain discondulling algorithm and compare them
5. Demonstrate any three disc space allocation method
6. Short note on linked allocation ,continuous, disc attachment
7. Explain various attributes of a file
8. Explain different access methods in a file
9. Explain the security measures that can be enforced to protest the system
10. Discuss the role of access matrix
11. Problems of disc scheduleing algorithm