OS PT-2 Question Pattern

1. State the necessary conditions to be fulfilled to solve the problem of critical section.

2. State and explain the necessary conditions for deadlock to occur.

3. Explain dining philosopher problem of process synchronization.

4. Explain Peterson's algorithm for critical section solution.

5. Explain TestAndSet Hardware process synchronization solution.

6. For a machine with n bit address bus what is the size of main memory?

7. If main memory has x frames of y bytes and logical space has z pages how many bytes are required for physical and logical addresses?

8. Problems solving for disc scheduling using FCFS, SCAN(Elevator) AND CSCAN algorithms.

9. Explain various File Access and File Allocation methods.

10.   What is RAID? What are different RAID levels?

11.   Write notes on:

    1. TLB

    2. Thrashing and handling it

    3. Fundamentals of Distributed OS

    4. Fundamentals of Network OS

    5. Fundamentals of Real-Time OS and scheduling