Subject: Operating System

Time: 1hr

Full marks: 20

Pass marks: 8

Attempt any four questions. [ 4\*5=20]

1) When programmed IO is suitable than other IO handling techniques? Explain the process of IO handling using DMA.

2) Explain the difference between external and internal fragmentation. How do you overcome the fragmentation problem in contiguous memory allocation?

3) What is dining philosophers problem? Explain the solution of dining philosophers problem using semaphore.

4) Explain the Linked list method of File allocation. Explain the advantage and disadvantage using File allocation Table with linked list.

5) Explain the necessary condition for deadlock? How do you prevent deadlock?

6) Why thread is called as light weight process? Compare user level thread with Kernel level thread.