



- 2 (a) Write about Round-Robin scheduling algorithm with proper example. 8  
 (b) Write about scheduling criteria. 4  
 (c) Discuss process states. 4

**OR**

- 2 (a) Write about operating system services. 8  
 (b) Write about shortest job first scheduling algorithm with proper example. 8

- 3 (a) Explain dining-philosophers problem 6  
 (b) Discuss monitors in detail. 10

**OR**

- (b) Write about deadlock avoidance. 10

- 4 (a) Answer the following :  
 (1) Define : Prepaging 2  
 (2) Define : Load time address binding scheme 2  
 (3) Define : Belady's anomaly 3  
 (4) Define : Compaction 3  
 (b) Answer any **one** : 5  
 (1) Find out effective access time using TLB with example  
 (2) Relocatable loading

- 5 Answer any **two** : 20  
 (1) RAID  
 (2) Demand paging  
 (3) Discuss MFU and LFU algorithm

- 6 Answer any **three** : 15  
 (1) Virtual memory  
 (2) DMA  
 (3) Performance of Demand Paging  
 (4) Discuss LOOK and C-LOOK algorithm with example