

ASSIGN (30 MARKS)

1. Define the term Operating system (2 marks)
2. Distinguish between a process and a program (4 marks)
3. What is the distinguishing characteristic of multiprogramming system? (2 marks)
4. Discuss the role of the following schedulers in process control: (6 marks)
 - i. Short term scheduler
 - ii. Medium term scheduler
 - iii. Long term scheduler
5. Below is a set of processes available for execution in a multi programmed environment:

Process	Burst time	Arrival time
1	11	0
2	7	1
3	2	2
4	5	3
5	3	5

Schedule the processes using First Come First Served (FCFS) and Shortest Remaining Time Next (SRTN) and comment on your average turnaround time and the average waiting time.

(9 marks)

6. Differentiate paging and segmentation as techniques in memory management. (4 marks)
8. Define the term thread and list what it contains. (3 marks)