

**Mumbai Education Trust's**  
**INSTITUTE OF ENGINEERING, BKC, NASHIK.**  
**DEPARTMENT OF COMPUTER ENGINEERING**

Subject : SPOS

ASSIGNMENT NO – 04

Unit : IV

1. What is operating system. Explain function of OS.
2. Explain types of Operating System.
3. State the Operating System Components.
4. Draw & explain process state transition.
5. Draw & explain Process Control Block & Context switching.
6. Write short notes on Threads.
7. Difference between Process and Thread
8. Explain the Process Scheduling with neat diagram(types of scheduler).
9. Explain different types of Scheduling method with an example.
- 10.

Consider the following set of processes for preemptive SJF scheduling (Time slab 2) :

Process Name	Arrival Time	Processing Time
P1	0	3
P2	1	5
P3	3	2
P4	9	5
P5	12	5

11.

For the following set of processes calculate the average waiting time and turnaround time for FCFS, SJF and RR scheduling. Also draw Gantt chart.

Process No.	Arrival time	Burst time
1	0	8
2	1	4
3	2	9
4	3	5

**\*\*\*\*\* Best of Luck \*\*\*\*\***