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

Subject : SPOS	**ASSIGNMENT NO – 05**	**Unit : V**

1. Explain the principle and issues with concurrency control.

2. Write short notes on Interprocess Communication and its problem.

3. Define deadlock. State condition of deadlock. Methods of handling deadlock.

4. What is deadlock Avoidance. Explain Bankers algorithms with example.

5. State System call. Explain various system call.

6. Write short notes on Monitor.

7. Explain Producer-Consumer Problem and Dining Philoshoper problem.

8. Write short notes on Deadlock Recovery.

9. Find out the safe sequence for execution of 3 processes using Bankers algorithm

Maximum Resources: R1 = 4, R2 = 4

Allocation Matrix

	R_1	R_2
P_1	1	0
P_2	1	1
P_3	1	2

Maximum Requirement Matrix

	R_1	R_2
P_1	1	1
P_2	2	3
P_3	2	2

10. Find out the safe sequence for execution of 3 processes using Bankers algorithm Maximum Resources: R1 = 7, R2 = 7, R3 = 10

Allocation Matrix

	R1	R2	R3
P1	2	2	3
P2	2	0	3
P3	1	2	4

Maximum Requirement Matrix

	R1	R2	R3
P1	3	6	8
P2	4	3	3
P3	3	4	4

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