

MCA Sem. :1

Subject Code :05MC0104

Subject : Operating Systems

Assignment-1

- Q 1 What is an operating system? Describe evolution of OS.
- Q 2 What is a process? Explain five states process models with diagram.
- Q 3 Differentiate : User level thread vs kernel level thread.
- Q 4 Explain producer consumer problem.
- Q 5 List and describe all necessary conditions for deadlock.
- Q 6 Explain HRRN algorithm in brief with example.
- Q 7 Explain dining philosopher problem and solution with semaphore.
- Q 8 List out scheduling algorithms. Perform FCFS algorithm for following process.

Process	Arrival time	Service time
A	0	3
B	2	6
C	4	4
D	6	5
E	8	2