

Subject: Operating System (01CE1401)

Semester:4<sup>th</sup>

**Assignment for Premium Students**

S. No.	Questions
1	Five batch jobs A to E arrive at same time. They have estimated running times 10,2,6,8,4 minutes. Their priorities are 3,2,5,4,1 respectively with 5 being highest priority. For each of the following algorithm determine mean process turnaround time. Ignore process swapping overhead. Round Robin (q=3), Priority Scheduling, FCFS, SJF.
2	What is monitor? Give the implementation of Bounded Buffer Producer-Consumer Problem using monitor.
3	Explain the concept of spooling?
4	What are the requirements that a solution to the critical section problem must satisfy?
5	Draw Four Gantt charts illustrating the execution of these processes using FCFS, SJF, priority (a small priority number implies a higher priority), and Round Robin (quantum=1) scheduling.