[Set B]

Continuous Assessment - 1

CSE316 : Operating Systems

Max.Marks: 30 **Time Allowed: 00:45 hrs**

Q1. Define the essential properties of the following types of operating systems. [5]
a) Interactive b) Time Sharing

Q2. Describe the action taken by the kernel to context switch between the processes? [5]

Q3. What is the method of invocation of long term and short term scheduler? [5]

Q4. Consider a set of n tasks with known runtimes r1, r2, ... rn to be run on a uniprocessor machine. Which processor scheduling algorithm will result in the maximum throughput? [5]

Q5. Consider three processes, P1, P2 and P3 shown in the table. Calculate the completion order of the 3 processes under the policies FCFS and RRS (Round Robin scheduling with CPU quantum of 2 time units). Also calculate the average waiting time as well as the turnaround time. [10]

Process	Arrival Time	Time units required
P1	0	5
P2	1	7
P3	3	4

See full size