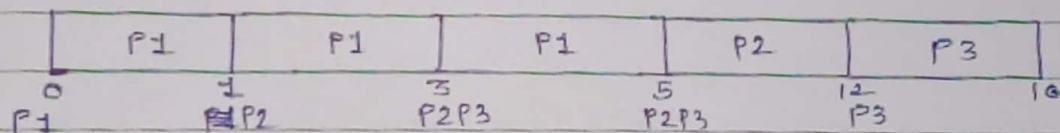Roll No. 66

Operating System Tut-3

Process Scheduling Algorithms - FCFS

Q. Consider the 3 process, P1, P2 and P3 shown in the table.

Process	Arrival Time	Time Units Required
P1	0	5
P2	1	7
P3	3	4

The complete order of the 3 process under the policies FCFS and RR2 (round robin scheduling with CPU quantum of 2 time units)

→ i) FCFS -

P1	P1	P1	P2	P3

```
0        1        3        5       12       16
P1      P2      P2 P3    P2 P3    P3
```

The completion order of the 3 process under the FCFS one   P1, P2 and P3

ii) Round Robin -

Time Quantum = 2 Units

Completion Order = P1, P3 and P2

| P1 P2 P1 P3 P2 P1 P3 P2 |

P1	P2	P1	P3	P2	P1	P3	P2	P2

```
0       2        4        6        8        10       12       13      15   16
      P1 P2     P2 P3    P2 P2    P3 P1    P2 P3    P2              
R P1=3  R P1=3   R P1=1   R P1=1   R P1=1   R P2=3   R P2=1
        R P2=5   R P2=5   R P2=5   R P2=3   R P3=2
        R P3=9   R P3=4   R P3=2   R P3=2
```