[CO3] Apply preemptive Shortest Remaining Time First (SRTF) scheduling algorithm and show the following -

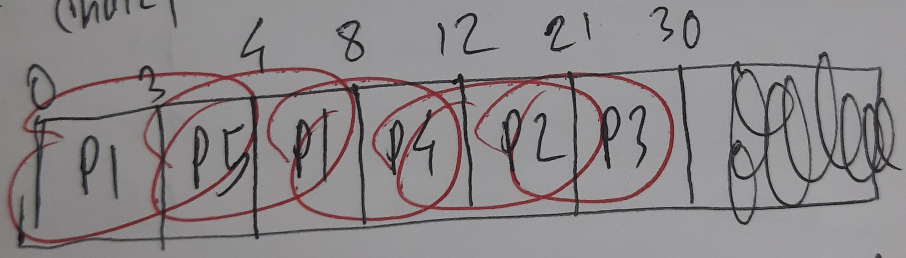
- Gantt Chart — 2 Marks
- Average Waiting Time & Average Turnaround Time — 2 Marks
- Number of Context Switching — 1 Marks

Process ID	Arrival Time	Burst Time
P1	0	7
P2	3	9
P3	4	9
P4	4	4
P5	3	1

5

P1 0 7 4
P2 3 9
P3 4 9
P4 4 4
P5 3 1

Gantt chart



iting time, = total waiting time - no of miliseconds ex
an

turnaround time = completion time - arrival

ing time,

turnaround time

P1 = 4 - 3 - 0 = 1

P2 = 12 - 0 - 3 = 9

P3 = 21 - 0 - 4 = 17

P1 = 8 - 0 = 8

P2 = 21 - 3 = 1

P3 = 30 - 4 =

12 - 4 =

2

CSE321: Operating Systems

Quiz-2

Name: Nazia Ahmed ID: 19101227 Section: 04

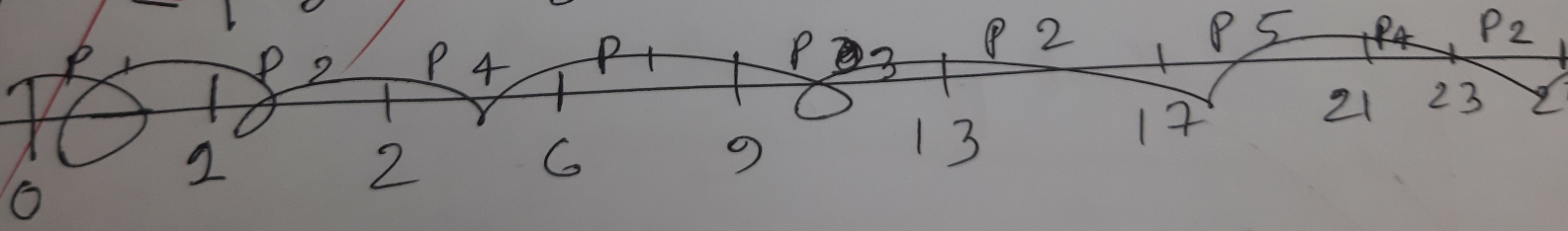
[CO3] Apply Round Robin (RR) scheduling algorithm with quantum = 4 and show the following -

- Gantt Chart — 2 Marks
- Average Waiting Time & Average Turnaround Time — 2 Marks
- Number of Context Switching — 1 Marks

Process ID	Arrival Time	Burst Time
P1	0	4
P2	1	7
P3	2	4
P4	1	6
P5	6	9

Waiting time
0 + 5
0 + 11 + 6
+
+ 15 +
+ 4
= 12

Turnaround.
1 + 5
01 + 11 + 6
11
5 + 15
15 + 4
Avg = 14.8



P1 P2 P4 P1 P3 P2 P5 P4 P2 P5

P1 P2 P4 P1 P3 P2 P5 P4 P2

CSE321: Operating Systems

Quiz-2

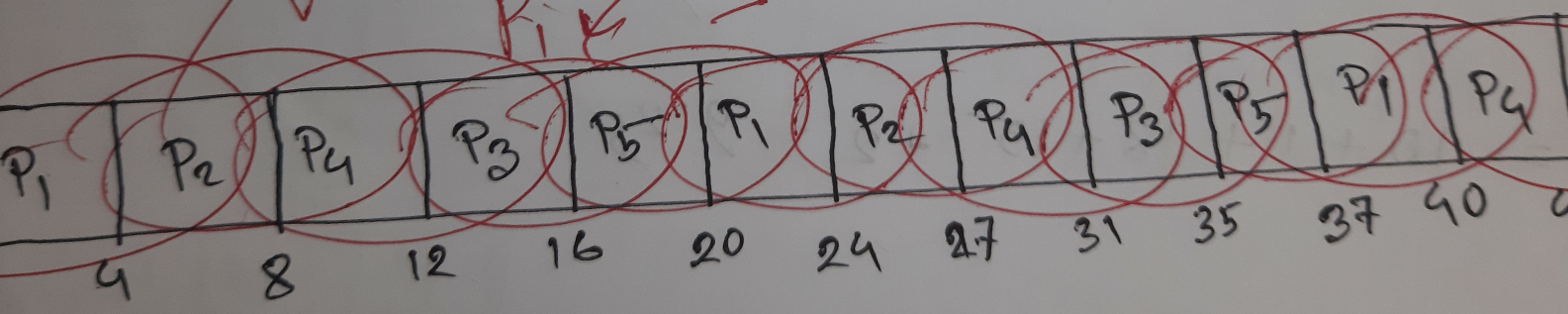
Name: Tasdin Huq ID: 19101349/22241141 Section: 04

[CO3] Apply Round Robin (RR) scheduling algorithm with quantum = 4 and show the following -

- Gantt Chart — 2 Marks
- Average Waiting Time & Average Turnaround Time — 2 Marks
- Number of Context Switching — 1 Marks

Process ID	Arrival Time	Burst Time
P1	0	17
P2	2	13
P3	4	11
P4	2	13
P5	7	8

Ans. to the following Question



$T = (0+16+13) + (2+16) + (8+15+8) + (6+15+9) + (9+$

$= 26.4$

$= 41 + 30 = 35.6$