

CSE321: Operating Systems

Quiz-2

Name: RATYAN BIN GAFFAR ID: 20101056 Section: 04

[C03] Apply Round Robin (RR) scheduling algorithm with quantum = 4 and show the following -

- Gantt Chart
- Average Waiting Time & Average Turnaround Time
- Number of Context Switching

2 Marks

2 Marks

1 Marks

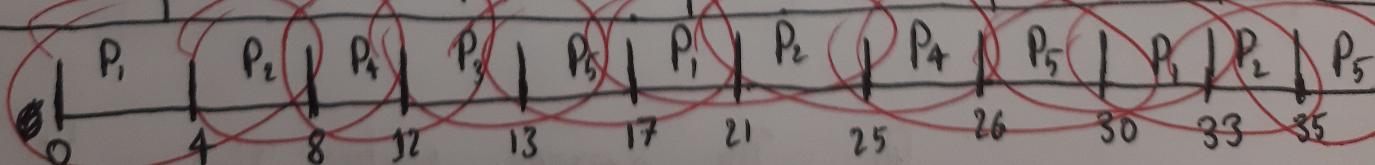
	Process ID	Arrival Time	Burst Time
a	P1	0	11
b	P2	1	10
c	P3	2	1
d	P4	1	5
e	P5	4	9

Q: Average Time = $\frac{11}{5}$

Q: Average Time = $\frac{9}{5}$

Quantum, q = 4

Process ID	Arrival Time	Burst Time	Finish Time	Turnaround Time	Waiting Time
P1	0	11	33	33	22
P2	1	10	35	34	24
P4	1	5	26	25	20
P3	2	1	13	11	10
P5	4	9	36	32	23



CSE321: Operating Systems

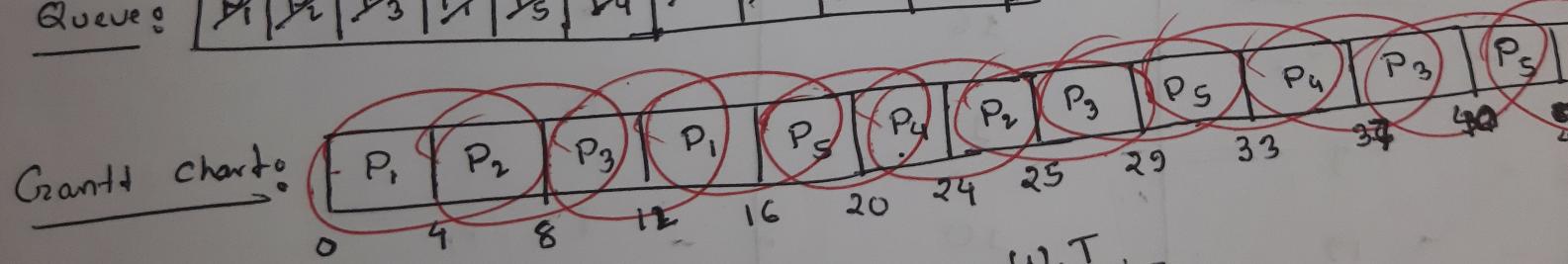
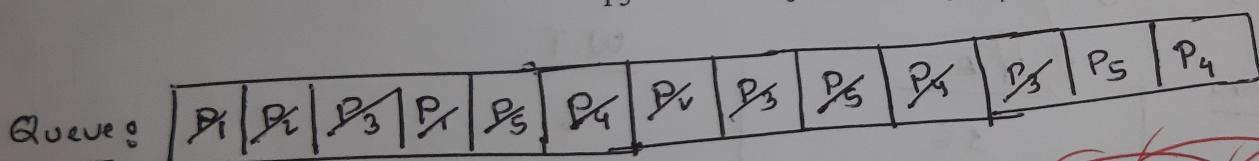
Quiz-2

Name: Shamawn ID: 20101558. Section: 4

[C03] 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	8 4
P2	1	5 1
P3	2	14 3
P4	7	8 5 1
P5	6	8 8 1



Completion time

P₁ - 16

TAT

W.T.

16

8

24

19

P₂ - 25

38

27.

P₃ - 40

35

26

P₄ - 42

35

26 .

P₅ - 41

24 .

[C03] Apply preemptive Shortest Remaining Time First (SRTF) scheduling algorithm and show the following -

- Gantt Chart
- Average Waiting Time & Average Turnaround Time
- Number of Context Switching

2 Marks
2 Marks
1 Marks

turn around

	Process ID	Arrival Time	Burst Time	
1	P1	0	1	X
2	P2	4	11	11
3	P3	4	1	12
4	P4	4	10	7
5	P5	8	1	7

~~2.8~~ $Avg = 6.2$

~~P3, P5 → P2 - P4, P3~~ P_2, P_3, P_4, P_5

