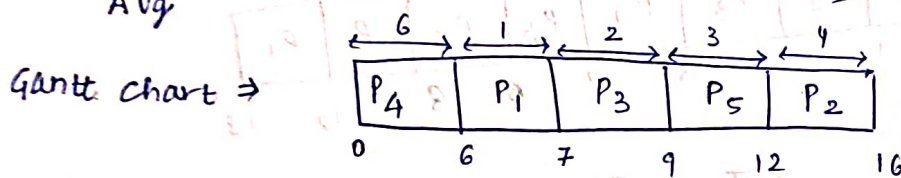


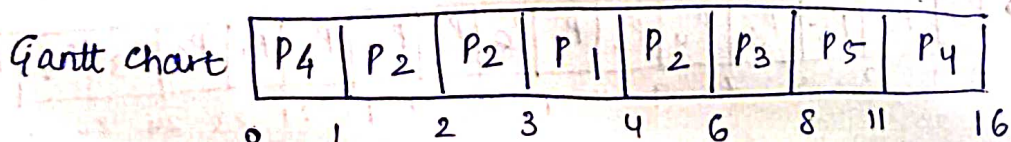
3) (a) SJF - Non preemptive

P	AT	BT	CT	(CT-AT) TAT	WT
P1	3	1 ^o	7	4	3
P2	1	4 ^o	16	15	11
P3	4	2 ^o	9	5	3
P4	0	6 ^o	6	6	0
P5	2	3 ^o	12	10	7
Avg				$\frac{8}{5} = 1.6$	$\frac{24}{5} = 4.8$



(b) SJF (Preemptive)

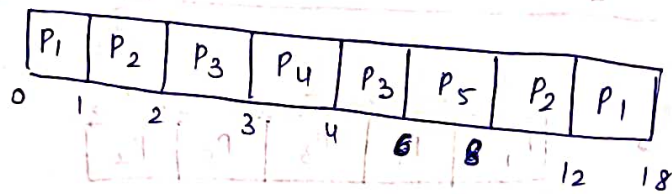
P	AT	BT	CT	TAT	TAT-BT WT	RT
P1	3	1 ^o	4	1	0	0
P2	1	4 ^o	6	5	1	0
P3	4	2 ^o	8	4	2	2
P4	0	6 ^o	16	16	10	0
P5	2	3 ^o	11	9	6	6
Avg				7	3.8	1.6



2 SRTF

P	AT	BT	CT	TAT	WT	RT
P ₁	0	7 ⁰	18	18	11	0
P ₂	1	5 ⁰	12	11	6	0
P ₃	2	3 ⁰	6	4	1	0
P ₄	3	1 ⁰	4	1	0	0
P ₅	4	2 ⁰	8	4	2	2
Avg				7.6	4	0.4

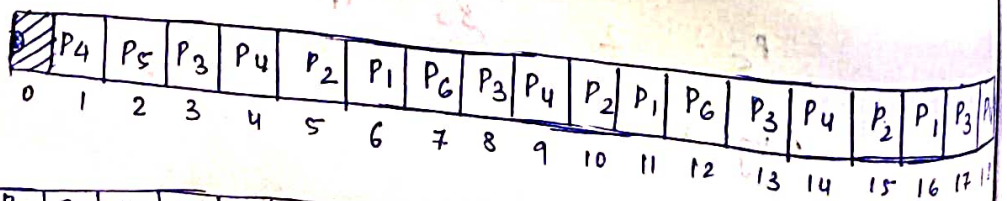
Gantt chart



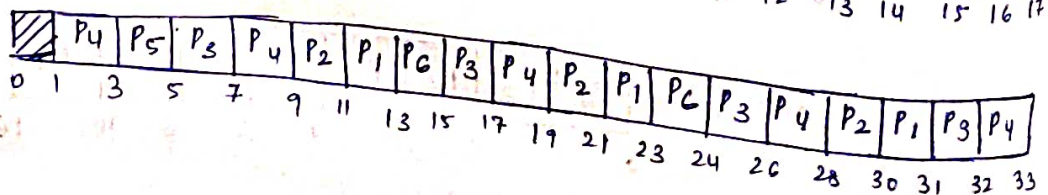
Pid	AT	BT	CT	TAT	WT	RT
P ₁	5	5 ⁰	31	26	21	6
P ₂	4	6 ⁰	30	26	20	5
P ₃	3	7 ⁰	32	29	22	2
P ₄	1	9 ⁰	33	32	23	0
P ₅	2	2 ⁰	5	3	1	1
P ₆	6	3 ⁰	24	18	15	7
Avg				26.8	20.4	4.2

Round robin, time quantum = 2

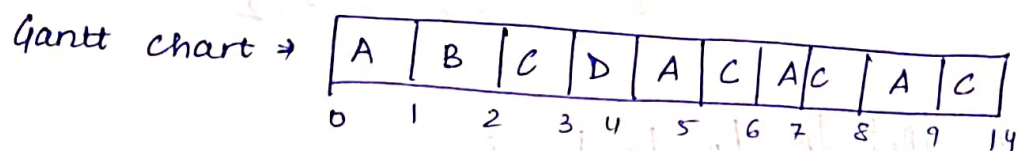
Ready queue \Rightarrow



Gantt chart \Rightarrow

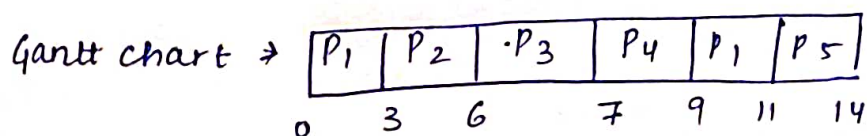
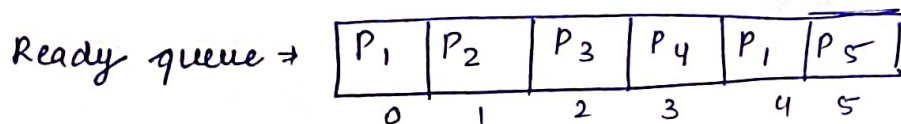


Process	AT	BT	CT	TAT
A	0	4	9	9
B	0	1	2	2
C	0	8	14	14
D	0	1	4	4



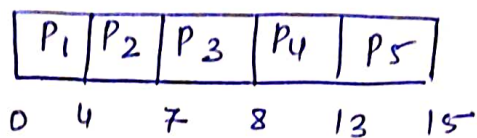
P	AT	BT	CT	TAT	WT	RT
P ₁	0	5	11	11	6	0
P ₂	1	3	6	5	2	2
P ₃	2	1	7	5	4	4
P ₄	3	2	4	6	4	4
P ₅	4	3	14	10	7	7

Avg 7.4 4.6 3.4



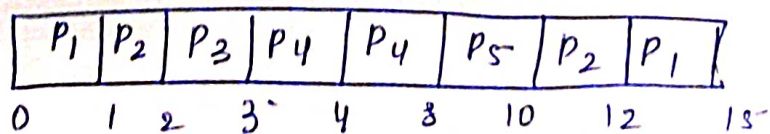
6(a)	P	Prior	AT	BT	CT	TAT	WT	RT
	P ₁	2	0	4	4	4	0	0
	P ₂	3	1	3	7	6	3	3
	P ₃	4	2	1	8	6	5	5
	P ₄	5	3	5	13	10	5	5
	P ₅	5	4	2	15	11	9	9
						7.4	4.4	4.4
Avg								

Gantt chart →



(b)	P	Prior	AT	BT	CT	TAT	WT	RT
	P ₁	2	0	4	15	15	11	0
	P ₂	3	1	3	12	11	8	0
	P ₃	4	2	1	3	1	0	0
	P ₄	5	3	5	8	5	0	0
	P ₅	5	4	2	10	6	4	4
						7.66	4.6	0.8
Avg								

Gantt chart →



P	AT	BT	CT	TAT	WT	RT
P ₁	3	4	7	4	0	0
P ₂	5	3	13	8	5	5
P ₃	0	2	2	2	0	0
P ₄	5	1	14	9	8	8
P ₅	4	3	10	6	3	3
Avg.				5.8	3.2	3.2

