

① FCFS: mode: Non-Preemptive

P.No	A.T	B.T	C.T	TAT	W.T
P1	0	5	5	5	0
P2	0	10	15	15	5
P3	0	8	23	23	15
P4	0	13	36	36	23

total = 39 total = 43

Gantt Chart:

P_1	P_2	P_3	P_4	
0	5	15	23	36


$$\text{Avg. W.T} = \frac{43}{4}$$

SJF:- mode: Non-Preemptive = 10.75 ms

P.No.	A.T	B.T	C.T	TAT	W.T
P1	0	5	5	5	0
P2	0	10	26	26	16
P3	0	8	16	16	8
P4	0	13	39	39	26

total = 50

Gantt Chart:

P_1		P_3	P_2	P_4	
0	5	8	16	26	39

$$\text{Avg. WT} = \frac{50}{4}$$

$$= 12.5 \text{ ms}$$

② Round Robin (RR):

P. no.	A.T	B.T	C.T	T.A.T	W.T
P1	0	8 30	21	21	13
P2	0	9 40	25	25	16
P3	0	10 50	30	30	20
P4	0	20	18	18	15

total = 64

4 TQ = 5 ms

Ready queue: ~~P1~~ ~~P2~~ ~~P3~~ ~~P4~~ ~~P1~~ ~~P2~~ ~~P3~~

$$\text{avg. WT} = \frac{16}{1} = 16 \text{ ms}$$

Gantt Chart :-

P_1	P_2	P_3	P_4	P_2	P_2	P_3	
0	5	10	15	18	21	25	30

③ priority scheduling method :- mode: Non-preemptive

priority	P. No.	A.T	B.T	C.T	T.A.T	W.T
3	P1	3	8	31	28	20
2	P2	2	9	23	21	13
1	P3	4	10	14	10	0
5	P4	1	3	4	3	0
4	P5	5	4	35	30	26
6	P6	6	2	37	31	29
low						

total = 88

	P4	P3	P2	P1	P5	P6
0	1	4	14	23	31	35

$$\text{avg. WT} = \frac{88}{6} = 14.66 \text{ ms}$$