Q1-1 Apply FCFS :-

PID	A.T	B.T
P1	3	4
P2	5	3
P3	0	2
P4	5	1
P5	4	3

Avg T_a = 5.8 units

Avg w_t = 3.2 units

Q:-2

PID	A.T	B.T
P1	0	2
P2	3	1
P3	5	6

Avg Ta = 3 units

Avg wt = 0 unit

Q:-3

PID	A.T	Burst Time
P1	0	3
P2	1	2
P3	2	1
P4	3	4
P5	4	5
P6	5	2

A.T :- Arrival time
B.T :- Burst time
T_a = Turn around time
w_t = waiting time

avg $T_a = \frac{39}{6}$ units

avg $w_t = \frac{22}{6}$ units

Apply SJF

Q:-1

P.ID	A.T	B.T
P1	3	1
P2	1	4
P3	4	2
P4	0	6
P5	2	3

Avg Ta = 8 unit

Avg wt = 4.8 unit

Q:-2

P.ID	A.T	B.T
P1	3	1
P2	1	4
P3	4	2
P4	0	6
P5	2	3

Avg Ta = 7 unit

Avg wt = 3.8 unit

Q:-3

PID	AT	BT
P1	0	7
P2	1	5
P3	2	3
P4	3	1
P5	4	2
P6	5	1

Avg Ta = 7.17 unit

Avg wt = 4 unit

Q:-4

PID	A.T	B.T	e.T	Ta	wt
P1	0	20			
P2	15	25			
P3	30	10			
P4	45	15			

Avg Ta = 25 unit

Vg wt = 10 unit

Priority Scheduling

Nature :- Non-preemptive

Q:-1

P.ID	A.T	B.T	Priority
P_1	0	4	2
P_2	1	3	3
P_3	2	1	4
P_4	3	5	5
P_5	4	2	5

Note:- Higher number represent higher priority.

Avg Ta = 8.2 unit

Avg wt = 5.2 unit.

Note :- same.

Q:-2

P.ID	A.T	B.T	Priority
P1	0	4	2
P2	1	3	3
P3	2	1	4
P4	3	5	5
P5	4	2	5

Avg Ta = 7.6 unit

Avg wt = 4.6 unit

Round Robin

Q:

P.ID	A.T	B.T
P_1	0	4
P_2	1	5
P_3	2	2
P_4	3	1
P_5	4	6
P_6	6	3

Time quantum = 2

Avg Ta = 10.84 unit

Avg w_t = 7.33 unit

Q:3

Time quantum - 2

PID	A.T	B.T
P_1	0	5
P_2	1	4
P_3	2	2
P_4	3	1

Avg ta = 8

Avg w_t = 5

Q:-2

PID	B.T	AT
P1	4	0
P2	1	0
P3	8	0
P4	1	0
P5	2	0

Time quantum ⇒ 4.