Process	Burst Time	Priority	Arrival time
P0	8	5	0
P1	2	4	2
P2	1	6	4
P3	3	3	6
P4	5	2	5
P5	4	7	3

Note: I have assumed that the highest number is the highest priority in priority scheduling.

1. FCFS

P_0	P_1	P_5	P_2	P_4	P_3

0 8 10 14 15 20 23

Average waiting time = 0 + (8-2) + (14-4) + (20-6) + (15-5) + (10-3) / 6

= 0+6+10+14+10+7/6

= 48/6 = 7.8

Average turn-around time = (8-0) + (10-2) + (15-4) + (23-6) + (20-5) + (14-3) / 6

= 8+8+11+17+15+11 / 6

= 70/6 = 11.6

2. SJF:

#non-preemptive

P_0	P_2	P_1	P_3	P_5	P_4

0 8 9 11 14 18 23

Average waiting time = 0 + (9-2) + (8-4) + (11-6) + (18-5) + (14-3) / 6

= 0+7+4+5+13+11/6

= 40/6 = 6.6

Average turn-around time = (8-0) + (11-2) + (9-4) + (14-6) + (23-5) + (18-3) / 6

= 8+9+5+8+18+15 / 6

= 63/6 = 10.5

#preemptive

P_0	P_1	P_2	P_5	P_3	P_4	P_0

0 2 4 5 9 12 17 23

Average waiting time = (17-2) + (2-2) + (4-4) + (9-6) + (12-5) + (5-3) / 6

= 15+0+0+3+7+2/6

= 27/6 = 4.5

Average turn-around time = (23-0) + (4-2) + (5-4) + (12-6) + (17-5) + (9-3) / 6

= 23+2+1+6+12+6 / 6

= 50/6 = 8.3

3. PS:

#non-preemptive

P_0	P_5	P_2	P_1	P_3	P_4

0 8 12 13 15 18 23

Average waiting time = 0 + (13-2) + (12-4) + (15-6) + (18-5) + (8-3) / 6

= 0+11+8+9+13+5/6

= 46/6 = 7.6

Average turn-around time = (8-0) + (15-2) + (13-4) + (18-6) + (23-5) + (12-3) / 6

= 8+13+9+12+18+9 / 6

= 69/6 = 11.5

#preemptive

P_0	P_5	P_2	P_0	P_1	P_3	P_4

0 3 7 8 13 15 18 23

Average waiting time = (8-3) + (13-2) + (7-4) + (15-6) + (18-5) + (3-3) / 6

= 5+11+3+9+13+0/6

= 41/6 = 6.8

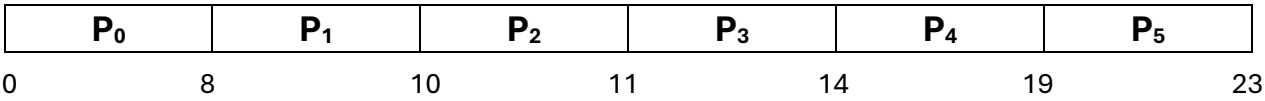
Average turn-around time = (13-0) + (15-2) + (8-4) + (18-6) + (23-5) + (7-3) / 6

= 13+13+4+12+18+4 / 6

= 64/6 = 10.6

4. RR:

#non-preemptive



Average waiting time = 0 + (8-2) + (10-4) + (11-6) + (14-5) + (19-3) / 6

= 0+6+6+5+9+16/6

= 42/6 = 7

Average turn-around time = 8 + (10-2) + (11-4) + (14-6) + (19-5) + (23-3) / 6

= 8+8+7+8+14+20 / 6

= 65/6 = 10.8

Part-3

Throughput = # of processes / Total time unit

= 6 / 23 = 0.26