DEPT. Of Computer Science Engineering

SRM IST, Kattankulathur – 603 203
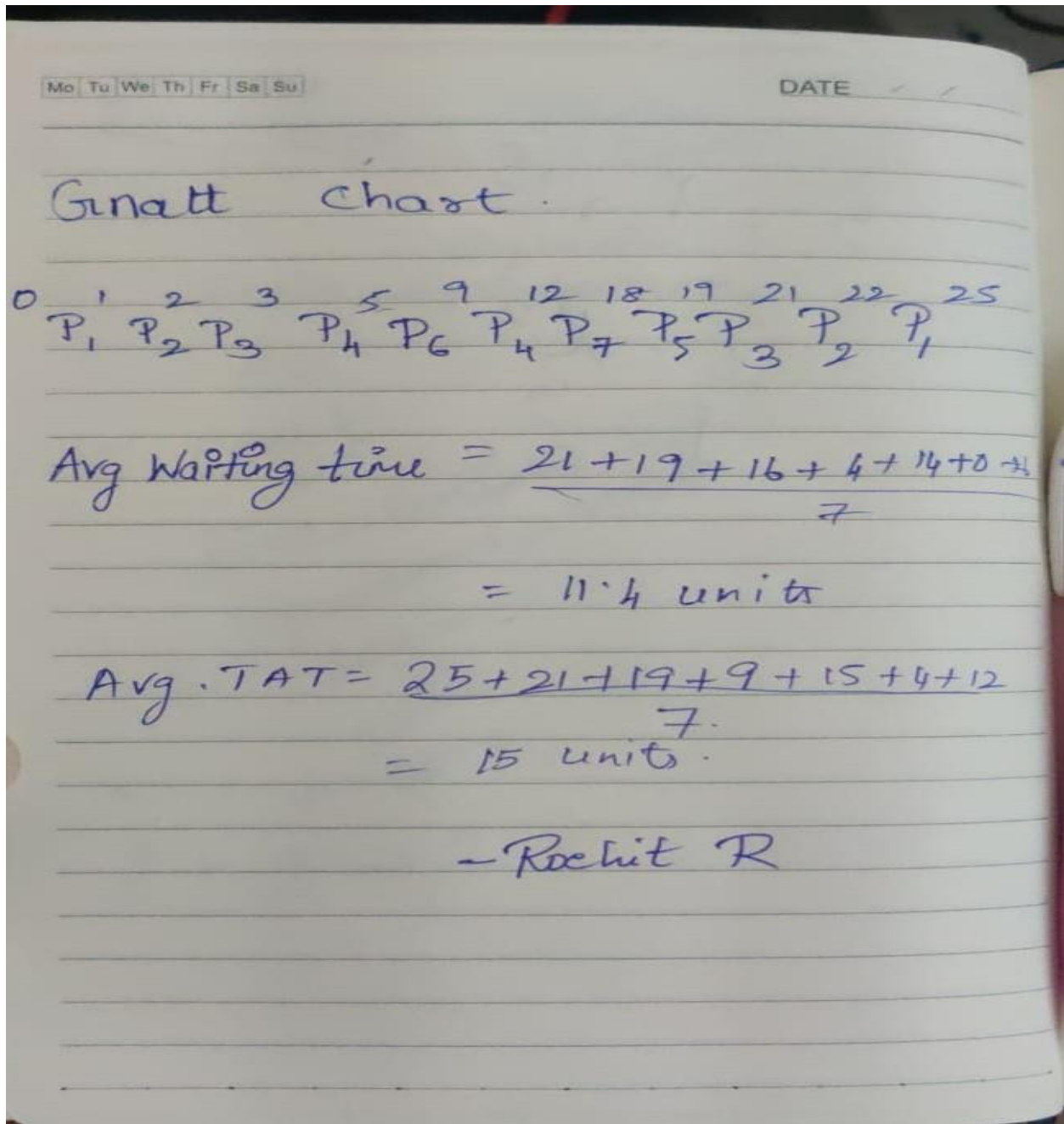
Name:Roehit Ranganathan

Registration Number:RA1911033010017

1.Consider the example with seven processes.

Process	Priority	Arrival time	Burst time	Completion time	Turnaround time	Waiting time
p1	2(low)	0	4	25	25	21
p2	4	1	2	22	21	19
p3	6	2	3	21	19	16
p4	10	3	5	12	9	4
p5	8	4	1	19	15	14
p6	12(high)	5	4	9	4	0
p7	9	6	6	18	12	6

Answer: Given higher the no. higher the priority i.e., 2(low) and 12(high).

Gantt chart.

0		1	2	3		5	9	12	18	17	21	22	25
P_1	P_2	P_3	P_4	P_6	P_4	P_7	P_5	P_3	P_2	P_1			

$$\text{Avg Waiting time} = \frac{21 + 19 + 16 + 4 + 14 + 0 + 7}{7}$$

$$= 11.4 \text{ units}$$

$$\text{Avg. TAT} = \frac{25 + 21 + 19 + 9 + 15 + 4 + 12}{7}$$

$$= 15 \text{ units.}$$

— Rohit R

Process	Burst time
p1	4/3/0
p2	2/1/0

p3	3/0
p4	5/3/0
p5	1/0
p6	4/0
p7	6/0