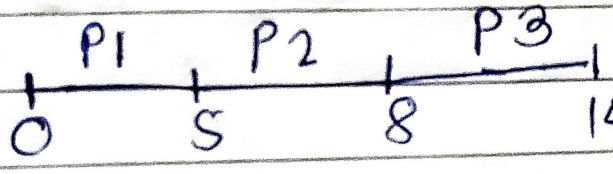
ICIS

Process	Arrival Time (AT)	Burst Time (BT)
P1	0	5
P2	1	3
P3	2	6

Gantt chart



Process	AT	BT	Start time	Completion Time
P1	0	5	0	5
P2	1	3	5	8
P3	2	6	8	14

TAT = CT - AT

Process	CT	AT	BT	TAT	WT (TAT - BT)
P1	5	0	5	5	0
P2	8	1	3	7	4
P3	14	2	6	12	6

AWT $\frac{0+4+6}{3} = 3.33$

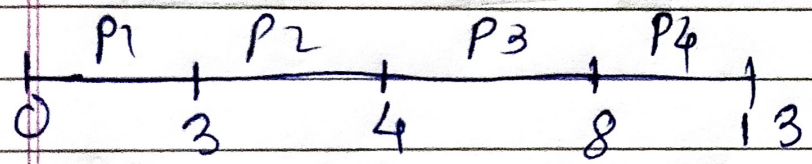
2025.03.02 22:38

SJF

Q.2

process	Arrival Time (AT)	Burst Time (BT)
P1	0	3
P2	1	5
P3	2	1
P4	3	4

Gantt chart



process	AT	BT	Start Time (ST)	Completion Time (CT)
P1	0	3	0	3
P2	1	1	3	4
P3	2	4	4	8
P4	3	5	8	13

process	CT	AT	TAT (CT-AT)
P1	3	0	3
P2	4	2	2
P3	8	1	5
P4	13	3	12

WT

Average TAT

$= \frac{3+2+5+12}{4} = \frac{22}{4}$

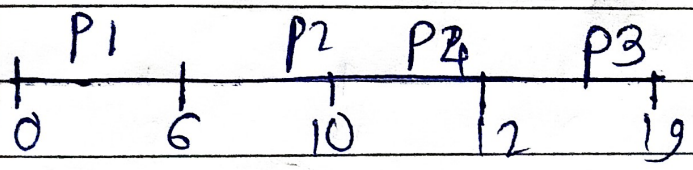
$= 5.5$

2025.03.02 22:38

Q.3

process	Arrival Time	Burst Time	priority
P1	0	6	3
P2	1	4	1
P3	2	7	4
P4	3	2	2

Gantt chart



Process	AT	BT	priority	ST (start time)	CT
P1	0	6	3	0	6
P2	1	4	1	6	10
P4	3	2	2	10	12
P3	2	7	4	12	19

Q.3

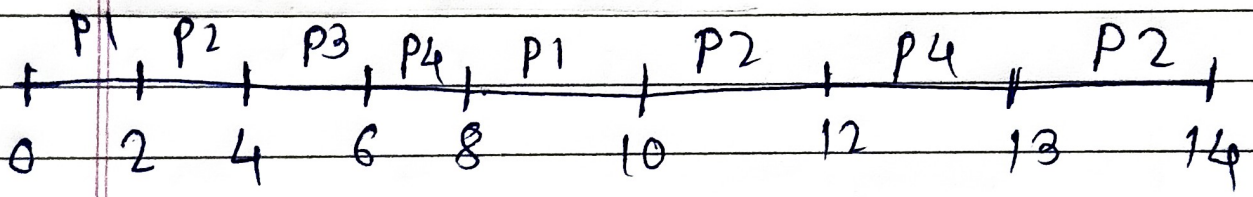
Process	CT	AT	TAT	BT	WT
P1	6	0	6	6	0
P2	10	1	9	4	5
P4	12	2	9	2	7
P3	19	2	17	7	10

Average WT $= \frac{0+5+7+10}{4} = \frac{22}{4} = 5.5$

Q.4

Process	AT	BT
P1	0	4
P2	1	5
P3	2	2
P4	3	3

Gantt chart



Process	CT	AT	TAT (CT - AT)
P1	10	0	10
P2	14	1	13
P3	6	2	4
P4	13	3	10

Avg. TAT $= \frac{10+13+4+10}{4} = \frac{37}{4} = 9.25$