

DATE: _____

DAY: _____

AssignmentAyisha ShamsheerBS (IT) M2-20-33.(SR TF)Operating System.

P	AT	BT	TAT	CT	WT
P ₁	0	7	14	14	7
P ₂	1	2	7	8	4
P ₃	3	4	1	4	3

Gantt chart	P ₁	P ₂	P ₃	P ₂	P ₃	P ₁
	0	1	2	3	4	8

$$7 + 4 + 3$$

3

$$= 4.6 \text{ Ans.}$$

(SR TF)

P	AT	BT	CT	TAT	WT
P ₁	0	8	20	20	12
P ₂	1	4	10	9	5
P ₃	2	2	4	2	0
P ₄	3	1	5	2	1
P ₅	4	3	13	9	6
P ₆	5	2	7	2	0

Gantt chart	P ₁	P ₂	P ₃	P ₃	P ₄	P ₆	P ₆	P ₂	P ₅	P ₁
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$$12 + 5 + 0 + 1 + 6 + 0$$

6

$$= 4 \text{ Ans.}$$

DATE: _____

(FCFS)

DAY: _____

P	AT	BT	CT	TAT	WT
P ₀	0	80	80	80	0
P ₁	1	20	100	99	79
P ₂	2	10	110	108	98
P ₃	3	20	130	127	107
P ₄	4	50	180	176	126

Gantt chart

P ₀	P ₁	P ₂	P ₃	P ₄
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• 80 100 110 130 180

$$\frac{0 + 79 + 89 + 107 + 126}{5}$$

= 82. Ans

(SJF)

P	BT	CT	WT
P ₁	21	32	11
P ₂	3	5	2
P ₃	6	11	5
P ₄	2	2	0

Gantt chart

P ₄	P ₂	P ₃	P ₁	////
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0 2 5 11 32

$$\frac{11 + 2 + 5 + 0}{4} = 4.5 \text{ Ans}$$

DATE: _____

DAY: _____

(FCFS)

P	Bt	CT	WT
P ₁	21	21	0
P ₂	3	24	21
P ₃	6	30	24
P ₄	2	32	30

$$\text{gnatlchart} \quad \boxed{P_1 \mid P_2 \mid P_3 \mid P_4}$$

$$0 \quad 21 \quad 24 \quad 30 \quad 32$$

$$= \frac{0 + 21 + 24 + 30}{4}$$

$$= 18.75 \text{ avg}$$

(SJF)

P	At	BT	TAT	CT	WT
P ₁	0	8		8	
P ₂	1	4			
P ₃	2	9			
P ₄	3	5			

$$\text{gnatlchart} \quad \boxed{P_1 \mid P_2 \mid P_3 \mid P_4}$$

$$0 \quad 8 \quad 12 \quad 21 \quad 26$$

DATE: _____

(SRTF)

DAY: _____

P	At	Bt	CT	TAT	WT
P ₁	0	6	20	20	14
P ₂	1	4	11	10	7
P ₃	2	1	3	1	2
P ₄	3	3	7	4	2
P ₅	4	2	8	4	6
P ₆	5	4	15	1	11

gnatl chart

P ₁	P ₂	P ₃	P ₄	P ₄	P ₅	P ₄	P ₅	P ₂	P ₆	P ₁	
0	1	2	3	4	5	6	7	8	11	15	20

(SJF)

P	At	Bt	CT	TAT	WT
P ₁	2	1	7	5	4
P ₂	1	5	16	15	10
P ₃	4	1	8	4	3
P ₄	0	6	6	6	0
P ₅	2	3	11	9	6

gnatl chart

P ₄	P ₁	P ₃	P ₅	P ₂
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DATE: _____

(SJF)

DAY: _____

P	BT	CT	WT
P ₁	6	9	3
P ₂	8	21	16
P ₃	7	16	9
P ₄	3	3	0

Gantt chart

P ₄	P ₁	P ₂	P ₂
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0 3 9 16 29

$$3 + 16 + 9 + 0$$

4

$$= 7 \text{ Ans}$$

(FCFS)

P	At	BT	CT	TAT	WT
P ₁	2	6	17	15	9
P ₂	5	3	24	19	16
P ₃	1	8	11	10	2
P ₄	0	3	3	3	0
P ₅	4	4	21	17	13

Gantt chart

P ₄	P ₃	P ₁	P ₅	P ₂
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0 3 11 17 21 24

DATE: _____

DAY: _____

(SJF)

P	AT	Bt	Ct	TAT	WT
P ₁	2	6	9	7	1
P ₂	5	2	11	6	4
P ₃	1	8	23	22	14
P ₄	0	3	3	3	0
P ₅	4	4	15	11	7

gnatl chart

P ₄	P ₁	P ₂	P ₅	P ₃
0	3	9	11	15

(SJF)

P	AT	Bt	TAT	CT	WT
P ₁	0	6	9	9	3
P ₂	0	8	24	24	16
P ₃	0	7	16	16	9
P ₄	0	3	3	3	0

gnatl Chart

P ₄	P ₁	P ₃	P ₂
0	3	9	16

$$3 + 16 + 9 + 0$$

4

$$= 7 \quad \underline{\underline{Ans}}$$

DATE: _____

DAY: _____

(SJF)

P	At	Bt	TAT	CT	WT
P ₁	0	8	8	8	0
P ₂	1	4	11	12	8
P ₃	2	9	24	26	17
P ₄	3	5	15	17	12

Gantt chart

P ₁	P ₂	P ₄	P ₃
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0 8 12 17 26

$$0 + 8 + 17 + 12$$

$$= 49.25 \text{ Avg}$$

(FCFS)

P	At	Bt	CT	TAT	WT
P ₁	2	2	4	2	0
P ₂	0	1	1	1	0
P ₃	2	3	7	5	2
P ₄	3	5	12	9	4
P ₅	4	4	16	12	8

Gantt chart

P ₂	idle	P ₁	P ₃	P ₄	P ₅
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0 1 2 4 7 12 16

$$\frac{40}{5}$$

$$= 8 \text{ Avg}$$

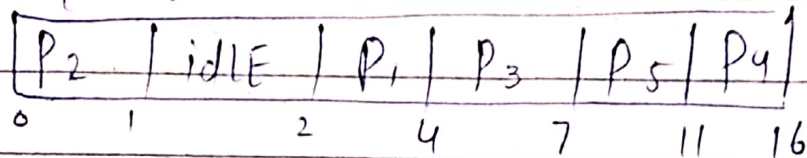
DATE: _____

DAY: _____

(SJF)

P	At	Bt	CT	TAT	WT
P ₁	2	2	4	2	4
P ₂	0	1	1	1	0
P ₃	2	3	7	5	2
P ₄	3	5	16	13	8
P ₅	4	4	11	7	3

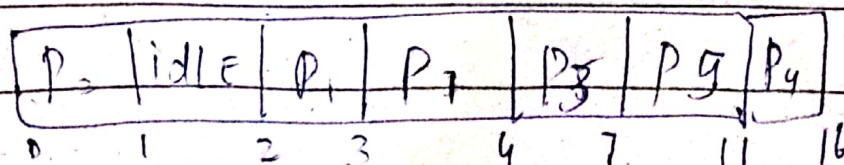
Gantt Chart



(SRTF)

P	At	Bt	CT	TAT	WT
P ₁	2	2	4	2	0
P ₂	0	1	1	1	0
P ₃	2	3	7	5	2
P ₄	3	5	16	13	8
P ₅	4	4	11	7	7

Gantt Chart



(FCFS)

Process	A ₁	B-T	W-T	TAT	CT
① P ₁	0	4	0	4	4
P ₂	1	2	3	5	6
P ₃	2	2	4	6	8
P ₄	4	3	4	7	11

Gantt chart

P_1	P_2	P_3	P_4	
0	4	6	8	11

$$TAT = CT - AT$$

$$WT = TAT - BT$$

$$0 + 3 + 4 + 4$$

$$4$$

$$11/4$$

$$= 2.75$$

(SRTF)

P	Arr-t	B-T	W-T	TAT	CT
② P ₁	2	6	9	15	17
P ₂	5	3	16	19	24
P ₃	1	8	2	10	11
P ₄	0	3	0	3	3
P ₅	4	4	13	17	21

Gantt chart

P ₄	P ₃	P ₁	P ₅	P ₂	
0	3	11	17	21	24

$$\frac{9 + 16 + 2 + 0 + 13}{5}$$

$$= \frac{40}{5} = 8$$

Date: _____

M T W T F S

(SJF)

P	AT	BT	CT	TAT	WT
P ₁	2	6	9	7	3
P ₂	5	2	11	6	4
P ₃	1	8	23	22	15
P ₄	0	3	3	3	0
P ₅	4	4	15	11	7

