





4. Find average thron-around time using shootest job first (SJF) process (Mun-preemptive)

Process	Assival	Burst 1	CT	(CT-AT)	(TAT-BT)	
P, =	2	6	9	7	1	7 7 13
S	5	: 12	11	6	4	
ρ ₃	V 1 V 1 2	318	19	1.8	0 1	
3 T4		3	3	3	0	P.(
4 7				34/4-8	5 19423) 75
	, ,			_		•

Gantt Chart:

P4 P1 P2 P3	<u>'</u>
0.3 -1 11	

2. Find the average weiting time vising SRTF (Shortest remaining time livet) (Pre-emptive)

(Short	est a one		.	TAT .	MT 1	
Process	Arrelval	BNAZA	CT	(CT-AT)	JAT-BT	_
100000	1, we	1110/	- 11	11	5	1
P	•	65		1	•	1
7	,	-2-10	3	2	0	ĺ
P2 1	1		I A	d. 17	×29	1
	2	.8		417	1 7)	
P ₃ 1		2	6	3	0	= =
P4	3	10	(1	1	1
		1 10)		19/1/2	35
		To the same	-	-	119	
	1.10	10. 0. P	\ P3	,		

۴,	P2	P2 P4	P4	P4 P1	13	19
6	12	2 3 P.P.B3 P.1314	P.P.R.	1319 113		

4

3. Determine the dry waiting time using Round sobin scheduling policy with TQ=2ms

		,			-	
Process !	Assivala Time	Busst	CT.	CT-AT	MT TAJ-BT	_
PI	Ö	-6420	14	14	8	
P2	1	20	4	3	1	
P3	2	864	13	17	9	.1
74	3	37.	15	112	9	
		-	-	46/9	27/,	
	{	1	1 '	=11.5	- = 6.7	1 15

Ready P1 P2 P3 P1 P4 P3 P1 P4 P3

Chart P1 P2 P3 P1 P4 P3 P1 P4 P3

Chart P1 P2 P3 P1 P4 P3 P1 P4 P3

Chart P1 P2 P3 P1 P4 P3 P1 P4 P3

O 2 Tunis 8 10 12 19 15 19

T whemis on in one ready onterfer 5/14

Round Robin Scheduling WITTRI completion 1 TAT Burst Avoiral (TAT-BI) (CPU Suca-Harr) (CT-AT) Process Time Time Time NO 0-0 =0 12 -531 12 0 2-1=1 PI 6 10 A2 11 1 P2 2 4 6 20 2 P3 8-4=4 5 40 4 P4 criteria: Time Quantum, Mode: Pre-emptive Given TQ=2 82 83

Running PIP2 P3 P1 P4 P2 P1

queue Gantt 0 2 4 6 8 9 11 12

Avg. TAT = $\frac{31}{4}$ = 1.75 Avg. WT = $\frac{19}{4}$ = 1.75 Avg. RT = $\frac{7}{4}$ = 1.75

How many times context switching happen:

6

Priority Scheduling Algorithm (Porcompaire)

	a .			a - oraling !	TAT	INIT	40
Paidaity	Proces	Arrival	Byost Time	complation	1/(1	• • •	
	ρ.	0	54	12	12 !	7	
10	, ,	ŷ.			-	0	
20	Pz	1	43	8	1	3	
3 o	Pa	2	240	4	2	0	
40	P4	4	1 ×0"	5	, 1		
200					- The same of the		

croiteria: "Priority" Mode: Preemptive

Higher theno. higher the priority

	6,	P2	P3 1	P3	Pc+ 1	P2-	Pi	
0	,	1	2	3	4 5	5 9	3 1	2_

 $Avg. TAT = \frac{22}{4}$

Ang. WT = 10

Run for 1 time quantum.