PART E Assignment OS 2

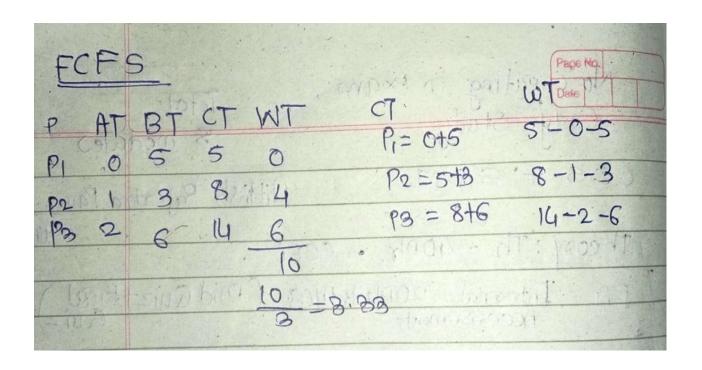
Saturday, March 1, 2025 10:17 PM

1. Consider the following processes with arrival times and burst times

:

Process	Arrival Time	Burst Time
P1	0	5
P2	1	3
Р3	2	6

Calculate the average waiting time using First-Come, First-Served (FCFS) scheduling.



2. Consider the following processes with arrival times and burst times:

Process	Arrival Time	Burst Time
P1	0	3
P2	1	5
Р3	2	1
P4	3	4

Calculate the average turnaround time using Shortest Job First (SJF) scheduling.

P	AT	BT	CT	100 Tumbound	BCT	Twonanunglin
PI	0	3	3	(3/1)	P1=300	P, = 3-0=3
P2		(5)	@13	12	P3=4	P8 = 4-2=e
Pa	2		@4	. 2	P8-8	Pu-8-8=
14	3	4	8	. 5	Par = 13	P2 = 13-1-6

3. Consider the following processes with arrival times, burst times, and priorities (lower number indicates higher priority):

Process	Arrival Time	Burst Time	Priority
P1	0	6	3
P2	1	4	1
Р3	2	7	4
P4	3	2	2

Calculate the average waiting time using Priority Scheduling.

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P	AT	BT	Polonity	ST	CT	TT.	NT		
Pi	0		8	7.0	12	12	6	rianulai	
P2	1.			1	5	4	0	ellade	
PB.	2	7	4	12	19	17	10		
Py		2	2	5	7	4	2	or result	100
Marie !).« }	legar.	101	10		ciece	18	17.5 Las	10 P.
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4. Consider the following processes with arrival times and burst times, and the time quantum for Round Robin scheduling is 2 units:

Process	Arrival Time	Burst Time
P1	0	4
P2	1	5
Р3	2	2
P4	3	3

Calculate the average turnaround time using Round Robin scheduling.

P4 3 3

Calculate the average turnaround time using Round Robin scheduling.

Date
Time P, P2 P3 P4 P, P2 P4
0-2 2
2-4 - 2
4-6 - 2
6-8 2
8-10 2
(0-12 - 3,
12-13
CT TT
CT TT = CT -AT
P ₁ = 10 = 10-0=10
92 = 12 = $12 - 1 = 11$
13-6 = 6-2=0
1Pq= 13 = 13-3=10
875 Aug 77 - 35
4735
28 - 8.75
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