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			Dale:		
<u>Que</u>	Process	Assival	Burst Time	Pricip	
	$\Phi_{\mathbf{i}}$	Ó	8	3	
	P_2	1.	1		
	P3	2	3	2	
	PY	3	2	3	
	P5	4	6	1 4	

1> FCFS

Pi	P2	P	3 P4	P5	
0	8	9	12	14	70,

1	Process	Burst	Waiting Time	Turn around time	
	Pi	8	0-0=0	8+0=8	
	P ₂	1	8-1=7	1+7=8	
	P ₃	3	9-2=7	3+7=10	
	Py	2	12-3=9	2+9=11	
	P5	6	14-4=10	6+10=16.	

waiting Time = Turn around Time - Burst Time

waiting Time = Response Time - Arrival.

(Non-preemtire schelle)

Algo.

27 Turn around Time = Time difference blu

completion time and avaival time

TAT = Byst Time + Working Time.

MAHAVIR EDUCATION TRUST'S Shah & Anchor Kutchhi Engineering College Avg waiting Time = Total WT No. of process =0+7+7+9+10 $=\frac{33}{5}$ =10=6 6.6 Avg TAT = 8+8+10+11+16 = 53 = 10:6 Seconds. SJF (Non-preemhive) P1 P2 Py P3 P5 1 8 9 11 14 20 Process | BT | WT | TAT

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_	1000622	,	30, /	/ / D /	
	Pi	8	0-6=0	8+0=8	
	P ₂ ,		8-1=7	1+7=8	
1	P3	3 .	11-2=9	3+9=12	
	Py	2_	9-3 = 6	2+6=8	
1	P5	6	14-4=10	6+10=16	
1			,)
	Avg	$\omega T = \frac{32}{5}$	Avg T	AT = 53	
	V	5	U	5	

=6.4 =10.4

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Date: 3) SJF (preemphire). P₁ P₂ P₃ P₄ P₅ P₁ P₁ O 1 2 5 7 13 20. In preemptive Scheduling when process P1 complete 1 second then another process P2 avoile at 1, so proceess P1 preemp and CPU allocate to P2) Process BT W. T TAT (0-0) + (13-1) = 12 8+12=20 8 1+0=1 1-1 = 0 3 | 2-2=03+0=3 5-3=2 Py 2+2= y 6+3= 9 P5 7-4=3 Avg WT = 17 = 3.4 Avg TAT = 37 = 7,4. 4) Priority (Preemptive) P₁ | P₂ | P₃ | P₁ | P₄ | P₅ | 20, (P) and Py has same priority so u can) Select any process on wheet Fifs order.

MAHAVIR EDUCATION TRUST'S Shah & Anchor Kutchhi Engineering College Date:

WIKAT BT (0-0)+5-1) Pi 8+4=12 Q P2 1+0=12-1=0 P3 2-2=0 3+03-3 Py 12-3=9 2+9=11 P5 14-4=10 6+10=16. WT Avg = 23 = 46 TAT AUG = 43 = 8.6 Another way of solving all problem Preemphire P1 | P2 | P3 | P1 | P4 | P5) 2 14 20 BI Turn as Time WT Bin 3 PI 12-0=12 12-8-4 2 - 1 = 1P2 1-1=0 2, 5-2=3 3 - 3 = 014-3=11 11-2 = 920-4=16 16-6 = 10 TAT = completine Time - Bust Time. wT= TAT-Burst time A19 WT = 23 = 4.6 TAT AVg = 43 = 8.6

MAHAVIR EDUCATION TRUST'S Shah & Anchor Kutchhi Engineering College Date: Round Robin (Time Quantum = 2) P1 P2 P3 P4 P5 P1 P3 P5 P1 P5 Process BT TAT (0-0)+ (9-2)+(IU-II) P, 8 8+12=20 + (18-16) = 0+7+3+2-P2 = 12 2-1=1 1+1=2 93 3-2)+(11-5)=1+6=7 3+7=10 5-3 = 2Py 2+2=4 P5 6+8=14 (7-4) + (12-9)+ (16-14) 3+3+2= 8 Avg WT = 12+1+2+8 = 6 AND TAT = 28+2+10+4+14 = 16 another Way brocesz 1 TAT WT BT 20-8=12 Pi 8 20-0=20 P2 3 - 1 = 2١ 2-1=1 12-2=10 3 Pz 10-3=7 Py 7-3=4 2 4-2=2 PS 18-4=14 14-6= 8 TAT = Completion - Arrival WT = TAT- Barst sime

and the same of