## Assignment - I

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Section: C

Branch: Information Technology

Subject: Operating Systems.

1) Consider a set of process with arrival time, cpu burst time and priority shown below. None of the . Process have I/o burst.

	CONTRACTOR CONTRACTOR OF THE PARTY OF THE PA		Driggital
Drocess	Arrival time	Burst lime	
	AND CONTRACTOR OF THE STATE OF	11	2
-		28	0
P2	5	20	3
P3	12	2	
13		10	1
PY	2	10	4
P <sub>5</sub>	9	16	
			o DOCES

calculate the average uniting time in processes using (i) preemptive priority scheduling algorithm. (ii) Non-preemptive priority scheduling of.

(i) P1 P4 P2 P4 P1 P3 P5 40 49 37

-	0 2		The same of the sa	0 0	-Average	TAT	+149.
-	Process	Arrival time	Burst time	the	Lime	,,,,	TAT
	0.	0		38		49	
	F	5	28	0	145/5	28	न्।
	P2-	12-	2	37	=29	38	=42.0
	P3	9_	0	28		38	
	P9	9	16	42		38	

(11)	Jon-E	remptive	Priority	0			+HVg. va
	P	1	PY	P3   P5			
	0	11 3	9 49	511	67		
	Process	-Arrival Time	Burst Time	waiting Time	Avgr W.T	TAT	AVQ TAT
	PI	0	11	0	- Marco	11	77
	P2-	5	28	6	122/5	34	189/5
	P3	12	2	37	= 34.4	39	=37.8
-	PY	2	10	37	The state of the s	47	
-	P5	q	16	42	Transport of the Control of the Cont	5%	

2. consider the following set of process with cpu
Burst time in millispecards, original time in millispecards

cords and priorities.

	Burst Time	Arrival Time	by by
Process	R. Commence of the commence of	According to the control of the cont	2
P2	5	0	
P3	19	2	9
PY	13	4	3

Draw the Gant Chart, Calculate my turn around time and average uniting time for scheduling algorithm.

(1) Round Robin (ii) priority scheduling 501.

(i) Round-Robin (Time Quantum=48)

P <sub>2</sub>	PI	P3   P4	P2	PI P3		
0	1	·	5 16	20 30	1	
process	A.T	B.T	W.T	AND MIT	TAT	AVQ TAT
PI	1	8	11		19	1
P2-	0	5	11	44/4	16	74/4 = 18-5
	2	14	19	-11	28	= 18-5
P3		30	2		11	
Py	4	9	0			
	•	Barbara and Alberta and Alberta Andreas (Alberta)	A market and a second s		-	THE RESIDENCE OF THE PROPERTY OF THE PARTY O

(ii) priority scheduling

P2	PI	PY	P3			
process	T. A	Boot	W.T	Aug. W.T	TAT	AV97 TAT
PI	1	8	4		12	571.
P2-	0	5	0	वन/प -	5	=14.95
P3	2	14	14	=6.75	घेड	
PY	4	3	9		12	