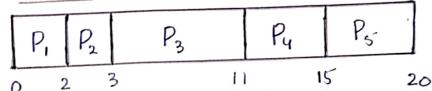
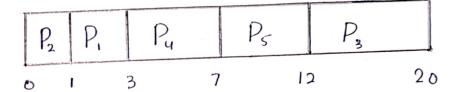
Name: Tazmeen Afroz Roll No: 22P-9252 SECTION: BAI-SA OPERATING SYSTEM assignment 44

Task #1

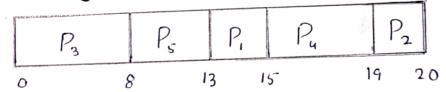
a) FCFS



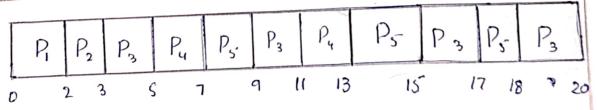
SJE



Priority



RR



Turn around time = Completion time - Arrival Time

As there is no arrial time give so in this case we assume it as zoro

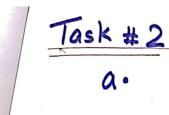
	FCFS	SJF	Priority	RR
Pı	2	3	15	2
P2	3	1	20	3
P ₃	11	20	8	20
Pu	15	7	19	13
Ps-	20	12	13	18

C. Waiting time = Turnaround time - Burst Time

	FcFs	SJF	Priority	RR
Pi	0	1	13	Ŏ
ρ,	2	0	19	2
Pa	3	12	0	12
P _u		3	15	9
P	15	7	8	13

SJF has shortest average waiting time over all the processes.

Scanned with CamScanner



1															
	Pi	idle	P2	P3	P.	P3	3	P4	り。	P3	idle	Ps	P6	Ps-	
0	2		•											115 15	

b. Turnaround time for each process

$$P_1 = 20 - 0 = 20$$

$$\rho_2 = 80 - 25 = 55$$

Waiting time:

CPU utilization rate:

= Total time CPU was active x 100

Total line elapsed

120

Task#3

a.

F CFS:

	ρ,	P.	P3	P	u	PS
0	Ś	5 8	} (7	16	20

SJF:

P ₃	Pay		P5	Pi		P4	
0	1	4	6	3 1	3	00	C

Priority.

	(6)						
	Pi	PS	P3	Pq		P ₂	
١	0 5	9	i	0	17	2	0

RR:

Pi	P.	2	P3	Pu	Ps	P,	P ₂	P4	Ps	P _t	Pu	
0	2				-			14		17		20

6. Turn aroud time

7	FCFS	SJF	Riouty	RR
٦	5	13	5	17
P	8	4	20	12
P _s	9	1	10	5
Ry	16	20	17	20
Po	20	8	9	16

c. Wailing Time:

		FCF S	SJE	Priority	RR
Pi		0	8	0	12
Pz		5	1	17	9
P3		8	0	9	4
),	9	13	10	13
	5	16	4	5	12

d.

FCFS any time: 706

SJF aug time: 5.2

Priority ary time: 8-2

RR ong time : 10

SUF results in the minimum average naiting time (over all processes).

Task#4

(a)

										200
0	Do	Do	Du	Pa	Pí	Pu	Pb	P3	P4	P2]
Y1	12	13	1.1.	1)				7 1	5 80	ગુડ
19	5 2	0 3	00 40	41	5 5	0 5	5	10		

(6)

ToA = Complétion Time - Arrival Time

Pi

15-0

 P_{2}

95-0

P3

75-20

Pu

80-25

Ps

50-45

P6

70-55

s 15

585

. 85

55

s 15

(c) w.T = T.A - B.T

12,

15 -15

5 ()

P2

95-20

s 75

. 7

55-20

s 35

P3

55-20

s 35

Py Ps

5 - 5

s O

Po

15-15

S ()