

## Part E.

1) First come first serve.

1) Process A.T. B.T W.T T.T

P <sub>1</sub>	0	5	0	5
P <sub>2</sub>	1	3	4	7
P <sub>3</sub>	2	6	6	12
P <sub>4</sub>			10	24

Ans →

$P_1$	$P_2$	$P_3$	
0	5	8	14

$$\text{Average waiting time} = \underline{\underline{8.3}}$$

2) shortest job first

1) Process A.T B.T W.T T.T

P <sub>1</sub>	0	3	0	3
P <sub>2</sub>	1	5	7	12
P <sub>3</sub>	2	1	1	2
P <sub>4</sub>	3	4	1	5
			9	

Ans →

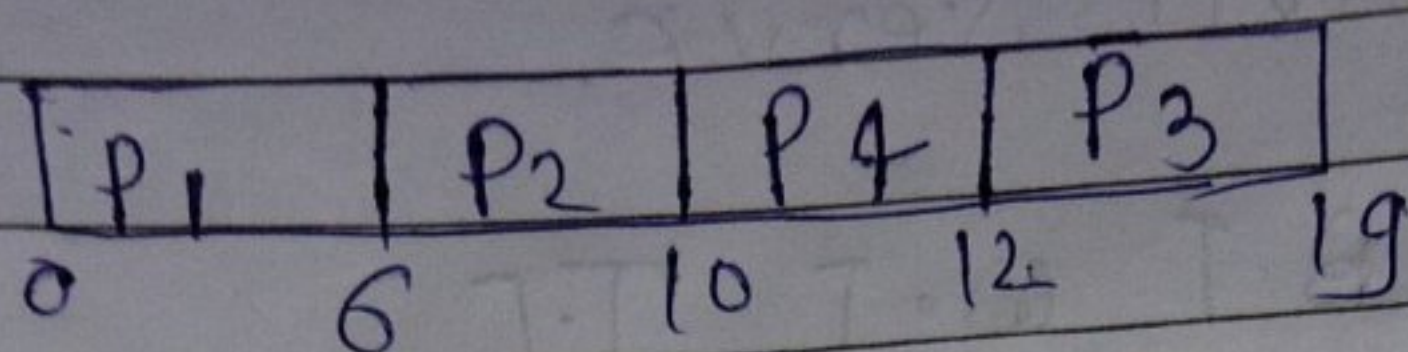
$P_1$	$P_3$	$P_4$	$P_2$	
0	3	4	8	13

$$\text{Average turnaround time} = \frac{22}{4} = \underline{\underline{5.5}}$$

3) priority scheduling algorithm

	A.T	B.T	W.T	T.T
P <sub>1</sub>	0	6	0	6
P <sub>2</sub>	1	4	5	9
P <sub>3</sub>	2	7	10	17
P <sub>4</sub>	3	2	7	19



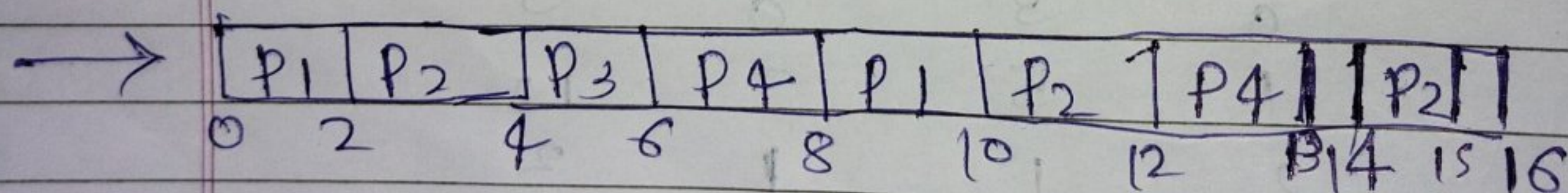
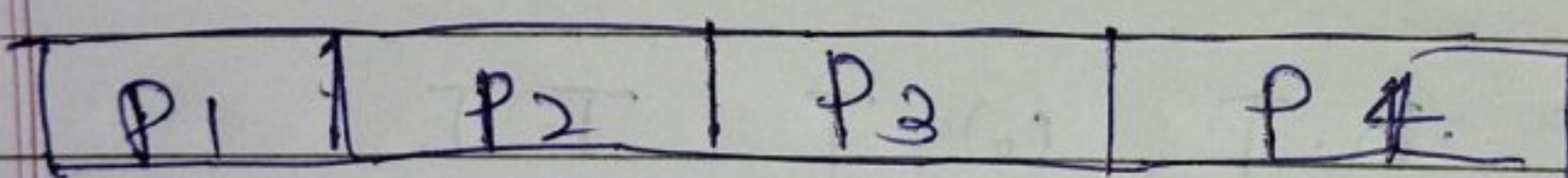


Avg Turnaround time =

Avg waiting time =  $\frac{22}{4} = 5.5$

4) Round Robin scheduling.

Process	A.T	B.T	W.T	T.T
P <sub>1</sub>	0	4	8	10
P <sub>2</sub>	1	5	13	14
P <sub>3</sub>	2	2	2	4
P <sub>4</sub>	3	3	9	10
				34



Average turnaround time:-  $\frac{34}{4} = 8.5$