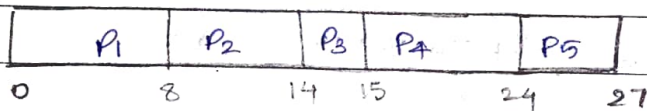


Assignment III

① Find avg. waiting & avg. turnaround time for following:

<u>PROCESS</u>	<u>BURST</u>	<u>PRIORITIES</u>
P1	8	4
P2	6	1
P3	1	2
P4	9	2
P5	3	3

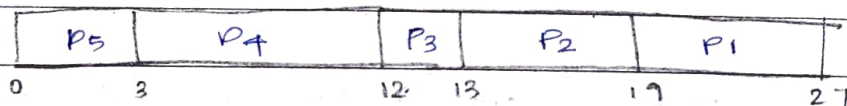
(i) FCFS



$$\text{Avg. waiting time} = \frac{0+8+14+15+24}{5} = \underline{\underline{12.2 \text{ ms.}}}$$

$$\text{Avg. turnaround time} = \frac{8+14+15+24+27}{5} = \underline{\underline{17.6 \text{ ms.}}}$$

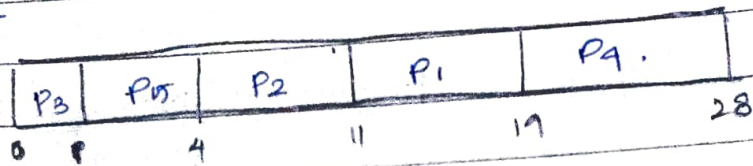
(ii) LCFS



$$\text{Avg. waiting time} = \frac{0+3+12+13+19}{5} = \underline{\underline{9.4 \text{ ms.}}}$$

$$\text{Avg. turnaround time} = \frac{3+12+13+19+27}{5} = \underline{\underline{14.8 \text{ ms.}}}$$

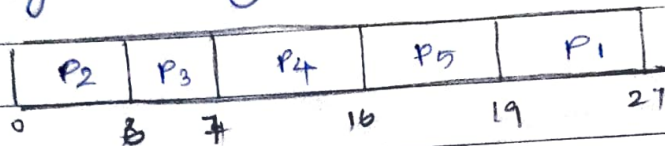
(iii) SJF



$$\text{Avg. waiting time} = \frac{0 + 1 + 4 + 11 + 19}{5} = \underline{\underline{7 \text{ ms}}}$$

$$\text{Avg. turnaround time} = \frac{1 + 4 + 11 + 19 + 28}{5} = \underline{\underline{12.6 \text{ ms}}}$$

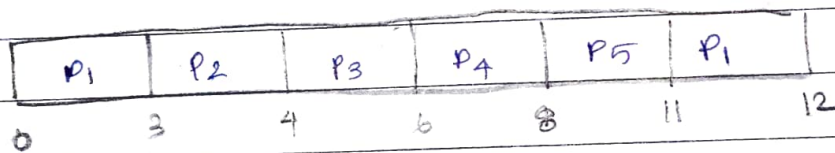
(iv) Priority Scheduling



$$\text{Avg. waiting time} = \frac{0 + 6 + 7 + 16 + 19}{5} = \underline{\underline{9.6 \text{ ms}}}$$

$$\text{Avg. turnaround time} = \frac{6 + 7 + 16 + 19 + 27}{5} = \underline{\underline{15 \text{ ms}}}$$

(v) Round Robin



$$\begin{aligned} \text{Avg. waiting time} &= \frac{(12-8) + (4-6) + (6-1) + (8-9) + (11-3)}{5} \\ &= \underline{\underline{2.8 \text{ ms}}} \end{aligned}$$

$$\text{Avg. turnaround time} = \frac{12 + 4 + 6 + 8 + 11}{5} = \underline{\underline{8.2 \text{ ms}}}$$