

Step 4 :- Generating Random Variable Patient - 30 min
Simulation - 4 hrs

Table - II

Patients	Arrival Time	Random Number	category	Service Time
1	08:00	45	Muscular pain	25 min
2	08:30	9	Arthritis	30 min
3	09:00	13	Arthritis	30 min
4	9:30	65	Muscular pain	25 min
5	10:00	74	Joint Pain	45 min
6	10:30	40	Muscular pain	25 min
7	11:00	89	Joint pain	45 min
8	11:30	98	Hip pain	15 min

Step 5 :- Find answer using Above Steps

Patients	Arrival Time	Service Start	Service Duration	Service End	Waiting Time	Idle Time
1	08:00	8:00	25 min	8:25	0	5 min
2	08:30	8:30	30 min	9:00	0	0
3	9:00	9:00	30 min	9:30	0	0
4	9:30	9:30	25 min	9:55	0	5 min
5	10:00	10:00	45 min	10:45	0	0
6	10:30	10:45	25 min	11:10	15 min	0
7	11:00	11:00	45 min	11:55	10 min	0
8	11:30	11:55	15 min	12:10	25 min	0
					$\frac{50}{8} = 6.25$	

Average Waiting Time = 6.25

Average Idle Time = 10 min/8 $\Rightarrow$ 1.25