

Round Robin With Priority

Time Quantum = 4

Process Arrival Time Burst Time Priority

✓ P ₁	0	12	3
✓ P ₂	5	19	3
✓ P ₃	8	21	5
✓ P ₄	11	13	2
✓ P ₅	15	18	3

→ jitna brha Number ho ga utni he kam priority hogi

P ₁	P ₁	P ₂	P ₄	P ₄	P ₄	P ₄	P ₁	P ₂	P ₅	P ₂	P ₅	P ₂	P ₅	P ₂	P ₅
0	4	8	12	16	20	24	25	29	33	37	41	45	49	53	57

P ₃	P ₃	P ₃	P ₃	P ₃	P ₃
63	67	71	75	79	80

Turn around time = finish time - arrival time.

Waiting time = Turn around time - Burst time.

	AT	BT	P	FT	TAT	WT
P ₁	0	12	3	29	29	17
P ₂	5	19	3	56	51	32
P ₃	8	21	5	80	72	51
P ₄	11	13	2	25	14	1
P ₅	15	18	3	59	44	29

$$\text{Turn around time} = \frac{29 + 51 + 72 + 14 + 44}{5} = \frac{210}{5} = 42$$

$$\text{Waiting time} = \frac{17 + 32 + 51 + 1 + 29}{5} = \frac{130}{5} = 26$$