CPU Scheduling Criteria in operating System

- 1. CPU utilization -> How much time is CPU Busy
- 2. Throughout -> Number of processes completed per unit time
- 3. Turnaround Time Completion Time (Arrival Time
- 4. (waiting Time) -> Total time spent in Ready Queue
- 5. Response Time -> (start Time) (Arrival Time)

P
Now
$$\rightarrow$$
 Reedy Running/Waiting Ready Running/ \rightarrow Term

2

2

4

20

25

30

30

30

2 = 28 \rightarrow TAT

2 + 5 = 7 \rightarrow WT

Ready \rightarrow Running

2 + 5 = 7 \rightarrow WT

 \rightarrow RT

2 + 7 \rightarrow RT

 \rightarrow RT

 \rightarrow RT

 \rightarrow RT

 \rightarrow RT

 \rightarrow Ready \rightarrow Running

 \rightarrow Running

 \rightarrow Running

Turnaround Time = Completion Time - Arrival Time

Turnaround Time = Total Burst Time + Total waiting To.

= BT + WT (Ready + f/o)



Assumption,
$$I/0 \rightarrow 0$$
 = BT + WT

 $TAT = BT + WT$
 $WT = TAT - BT$
 $RT = start Time - Arrival Time$

TAT = CPO Burst Time + $I/0$ Burst Time + WT

TAT = CPO Burst Time + $I/0$ Burst Time + WT
 $WT = TAT - CPO$ Burst Time - $I/0$ Burst Time

 $TOTAL = CPO$ Burst Time - $I/0$ Burst Time

 $TOTAL = CPO$ Burst Time

 $TAT = CT - AT$
 $TAT = CT - AT$