## **CPU SCHEDULING CRITERIA IN OPERATING SYSTEM**

 $\frac{300}{300} \times \frac{100}{100} = \frac{0 - 200}{50}$ **CPU UTILIZATION** - How much is cpu busy? THROUGHPUT - Number of processes completed per unit time.

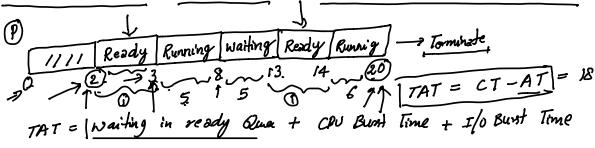
TURNAROUND TIME - Interval from the time of submission of a process to the time of completion. Sum of time spent in:

- Waiting to load in memory >> (AT) → Process enters ready Queue
- Waiting in ready queue ✓ 「
- (CT) -> Completion Time
- CPU execution cpu burst time

I/O - I/O burst time V

WAITING TIME - Total time spent by the process in ready queue

RESPONSE TIME - Time from the submission of the process of a request until first response is produced or time spent by the process in ready queue for the first time.



$$TAT$$
 =  $WT + CPU$  Burst Time +  $I/o$  Burst Time  $VT = 2$ 
 $WT = TAT - CPU$  Burst Time -  $I/o$  Burst Time start Time (ST)

 $WT = TAT - BT$ 
 $WT = TAT - BT$ 
 $WT = TAT - Total$  Burst Time

$$NT = TAT - Total Bunt Time$$

$$18 - 16 = 2$$

$$VT = TAT - Total Bunt Time$$

$$I = ST - AT = 2$$

$$I = TAT - Total Bunt Time$$

$$I = ST - AT = 2$$

$$I = TAT - Total Bunt Time$$

$$I =$$

Minimise

Max(CT) - Min(AT)

TAT = CT - AT

WT = TAT - CPU Burst Time - I/o Burst Time

RT = ST - AT

CPU utilized =  $\frac{CPU was running some from }{Total + time}$ Max(CT) - Min(AT)

Schedule length L