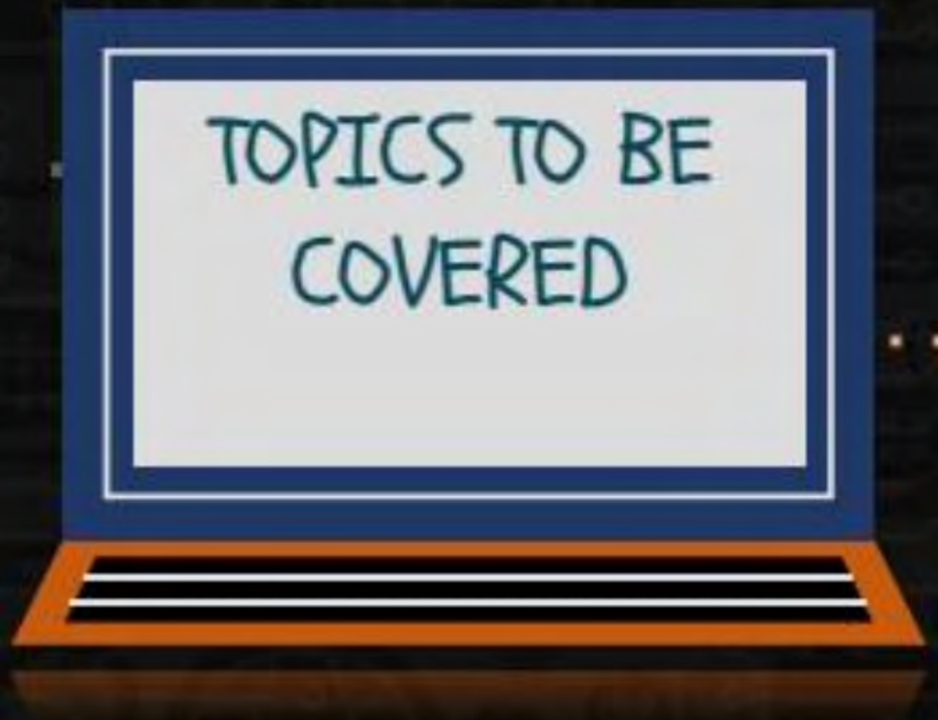
CS & IT ENGINEERING

Operating System

Process Management

DPP 04 Discussion Notes

By- Anjnee Bhatnagar ma'am



01 Question

02 Discussion

Q.1

Long term scheduler operates on ____.

[MCQ]

A. Input queue

B. Job queue

C. Ready queue

D. Device queue

Q.2

Which of the following scheduler works between disk and main memory?

[MSQ]

A. Long term scheduler

B. Medium term scheduler

C. Short term scheduler

D. CPU scheduler

Q.3

The time spent by a process inside a CPU is known as ___.

[MCQ]

A. Waiting time

B. Turnaround time = CT − AT

C. Completion time

D. Burst time

Q.4

Context switching is done by ___.

[MCQ]

A. Operator

B. Scheduler

C. Dispatcher

D. Loader

Saving the context of the process and Loading the context of the next process

Q.5

Consider a system with 5 CPU's and 20 processes. Suppose X is the maximum number of processes that can be in the running state, Y is the minimum number of processes in the ready state, Z is the maximum number of processes in the block state. Calculate X + Y*Z? [NAT]

CPU's = 5

Processes = 20

X ⇒ 5

Y ⇒ 0

Z ⇒ 20

5 + 0 * 20

⇒ 5

Q.6

Which scheduler plays important role in “swapping”?

[MCQ]

A. Long term scheduler

B. Medium term scheduler

C. Short term scheduler

D. None of these

Q.7

_____, is the time when process first enters into ready queue.

[MSQ]

A. Submission time.

B. Arrival time

C. Dispatch time

D. Load time

Q.8

If n is the total time spent by a process since its arrival till its completion, and s amount of time process spent within CPU, it also requires to perform some input-output activity and there the process spent x amount of time. Which of the following is correct expression for the total time spent by process in Ready queue?

[MCQ]

A. $s - (n + x)$

B. $x + (s - n)$

C. $n + (s - x)$

D. $n - (s + x)$

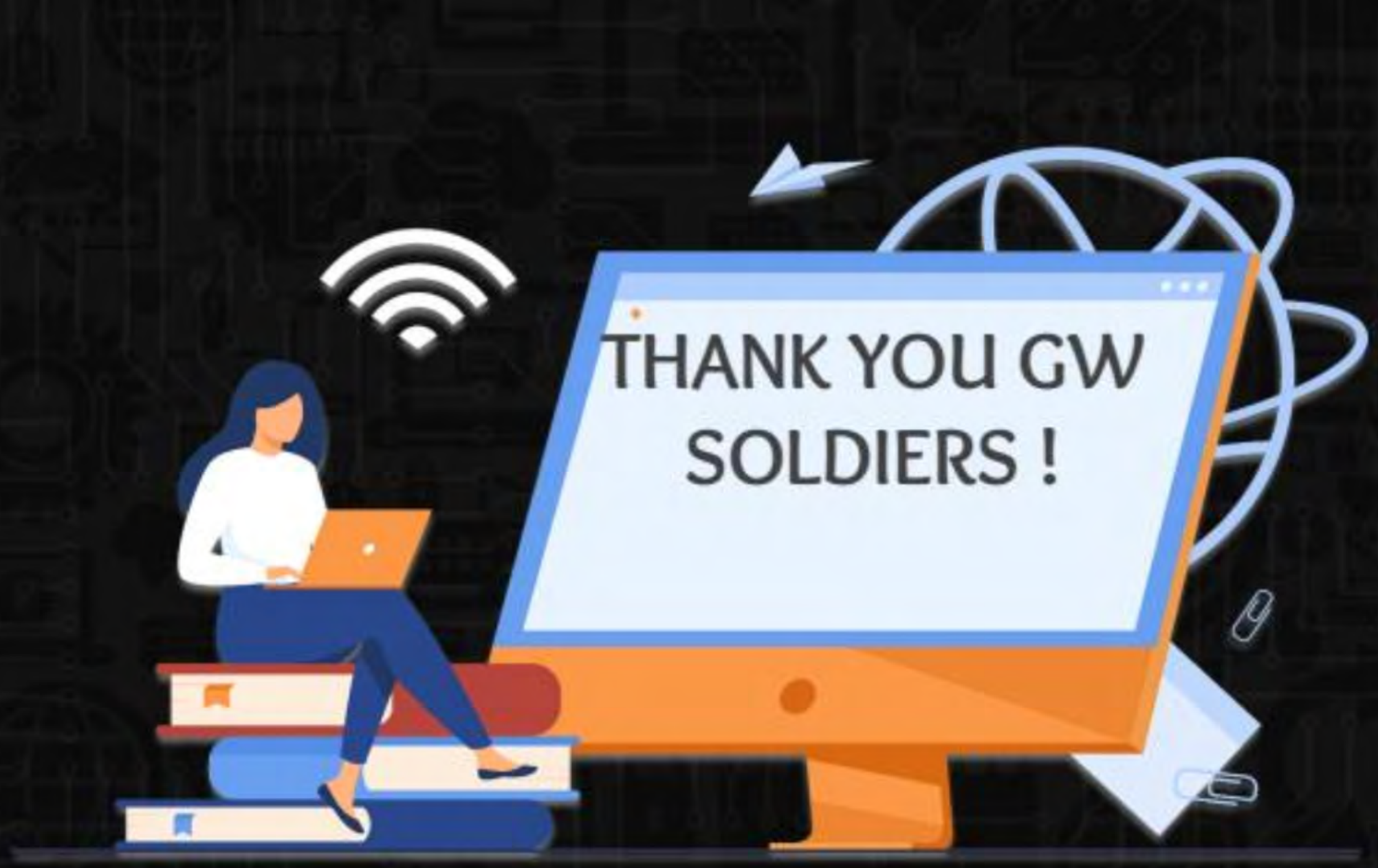
n = T.A.T = C.T − A.T

S = Burst time

I/O = x

W.T ⇒ T.A.T − B.T

W.t ⇒ $n - (s + x)$


THANK YOU GW
SOLDIERS !