Schedulers à Dispatcher

-> Schedulers are the Components of O.S. (Process Manager)
that makes Decisions;

Schedulers

Long Jerm Scheduler (LTS)

Short Jerm " (STS)

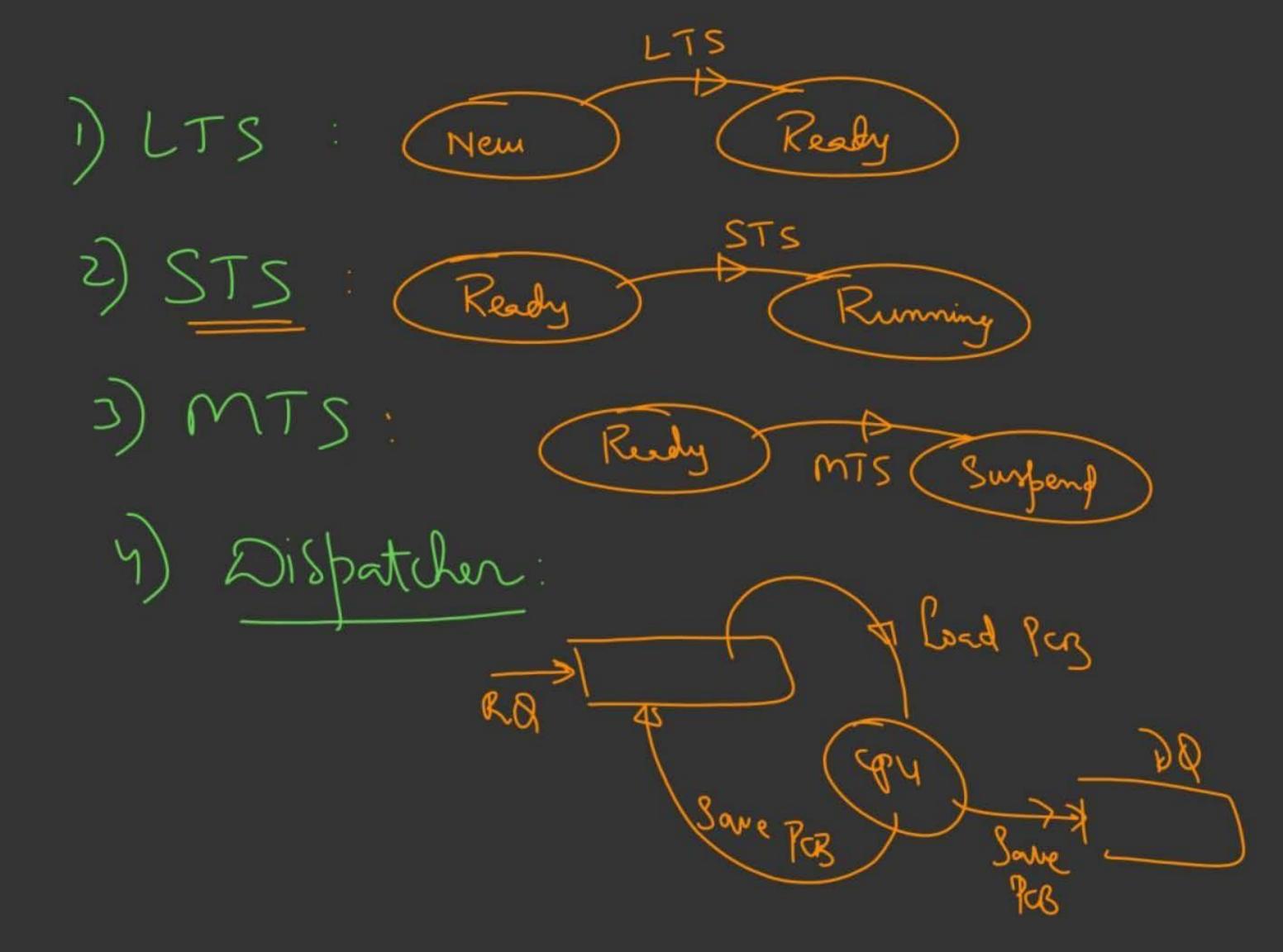
Medium Jerm " (MTS)

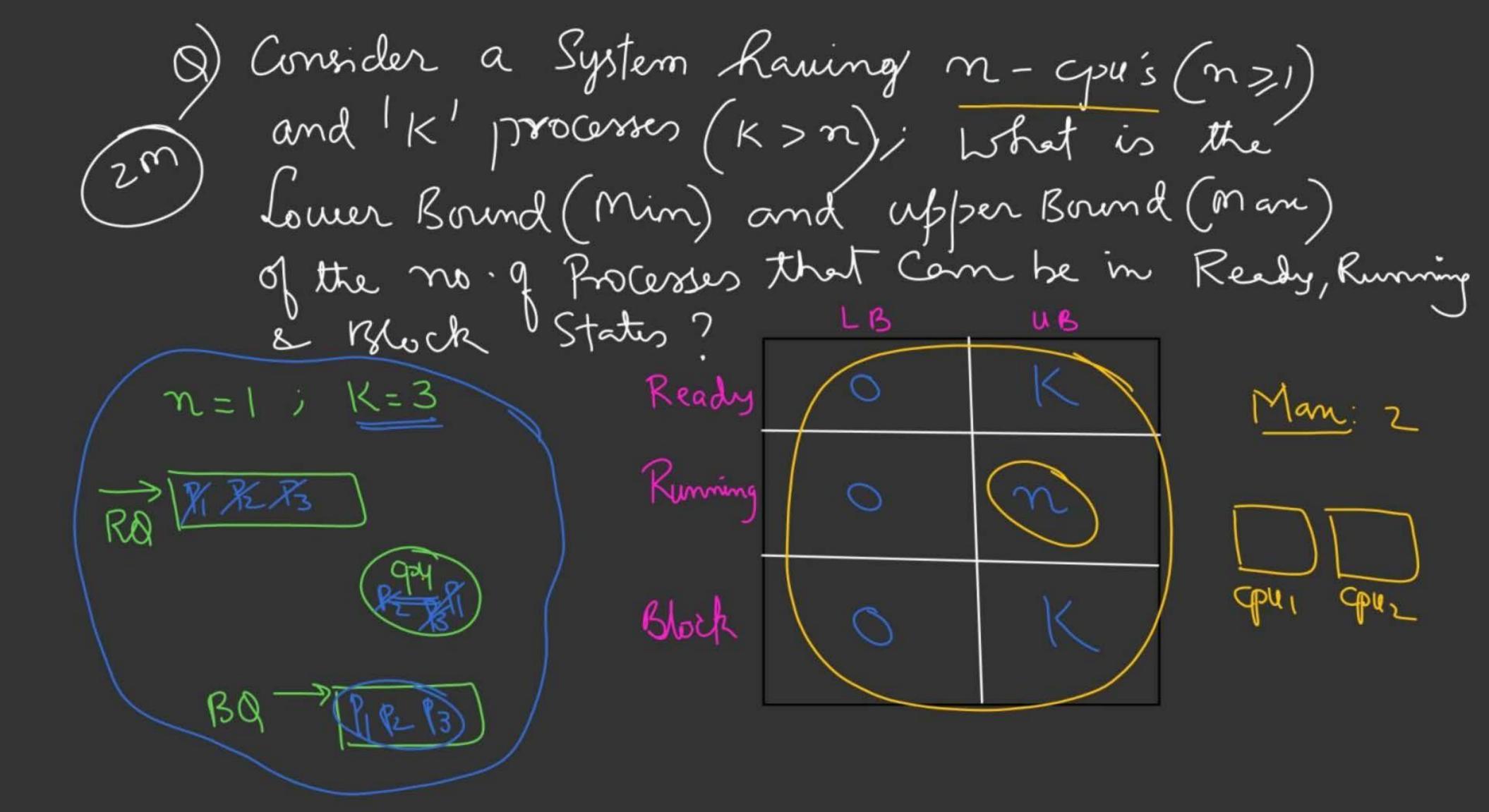
Long Ferm Scheduler:	operates on Job-8 & Decides which programs to be Loaded in Memor
	distinction (500)

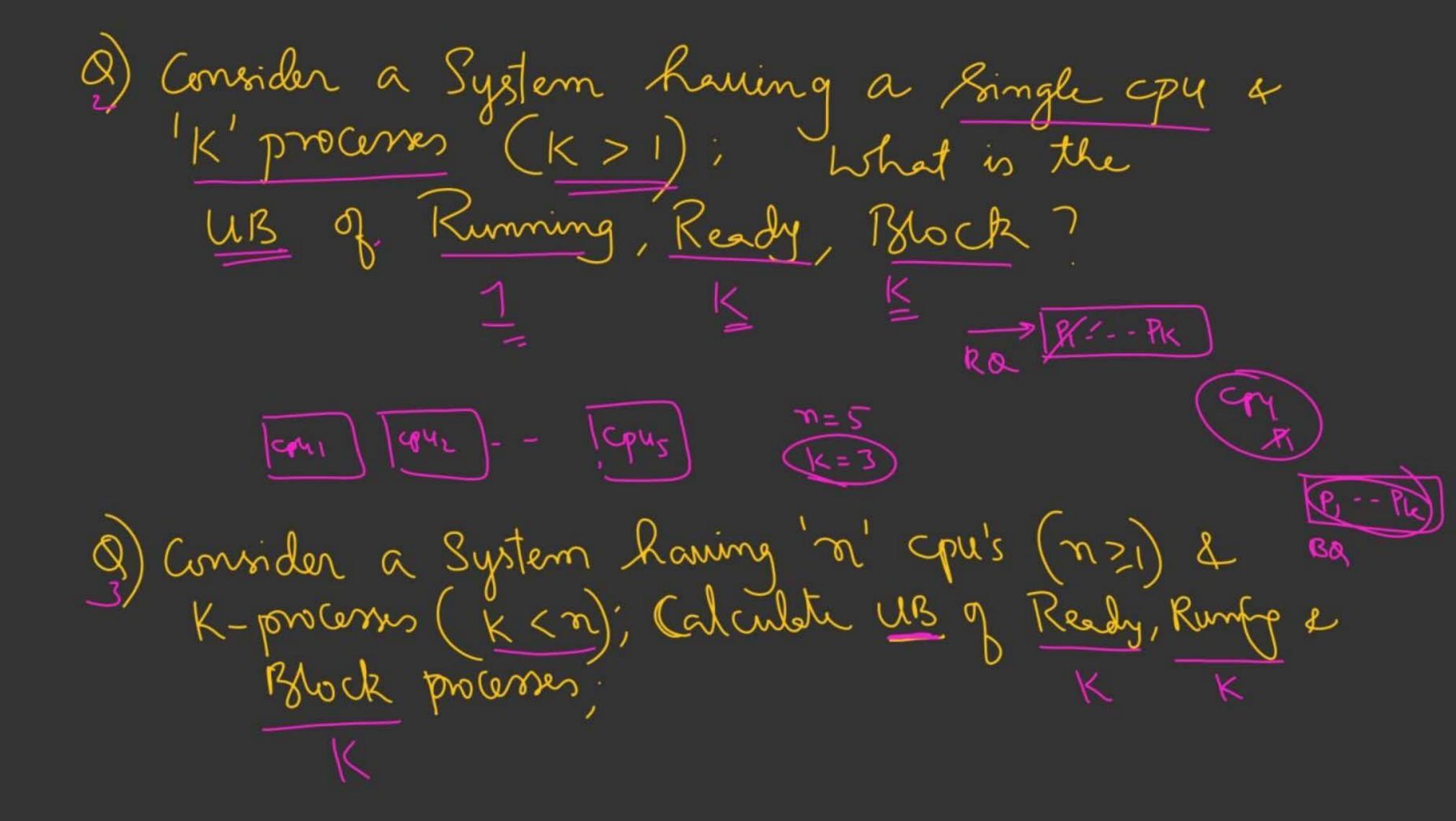
- 2) Short Jerm Schedulen: Operates on Ready 0, to CPU-Schedulen deride which ready Process Should run onto cpu-Nent
- 3) Medium Jern Schedulen: operates on (Suspend Q')
 to Swap-out & Swap-in Processes;

Which Scheduler controls segree of Multiprogramming? Long registered Rocens (a) LTS b) MTS c) STS Does uniprogrammed o S need a Scheduler.

(ONTEXT - SWITCHING is an activity Carried out by DISPATCHER), that involves (Dispatcher) Saving the PCIS of process Learning the Cpr and wading CPU the PCB of Next Ready Process Pag overhead unto cpu; Process

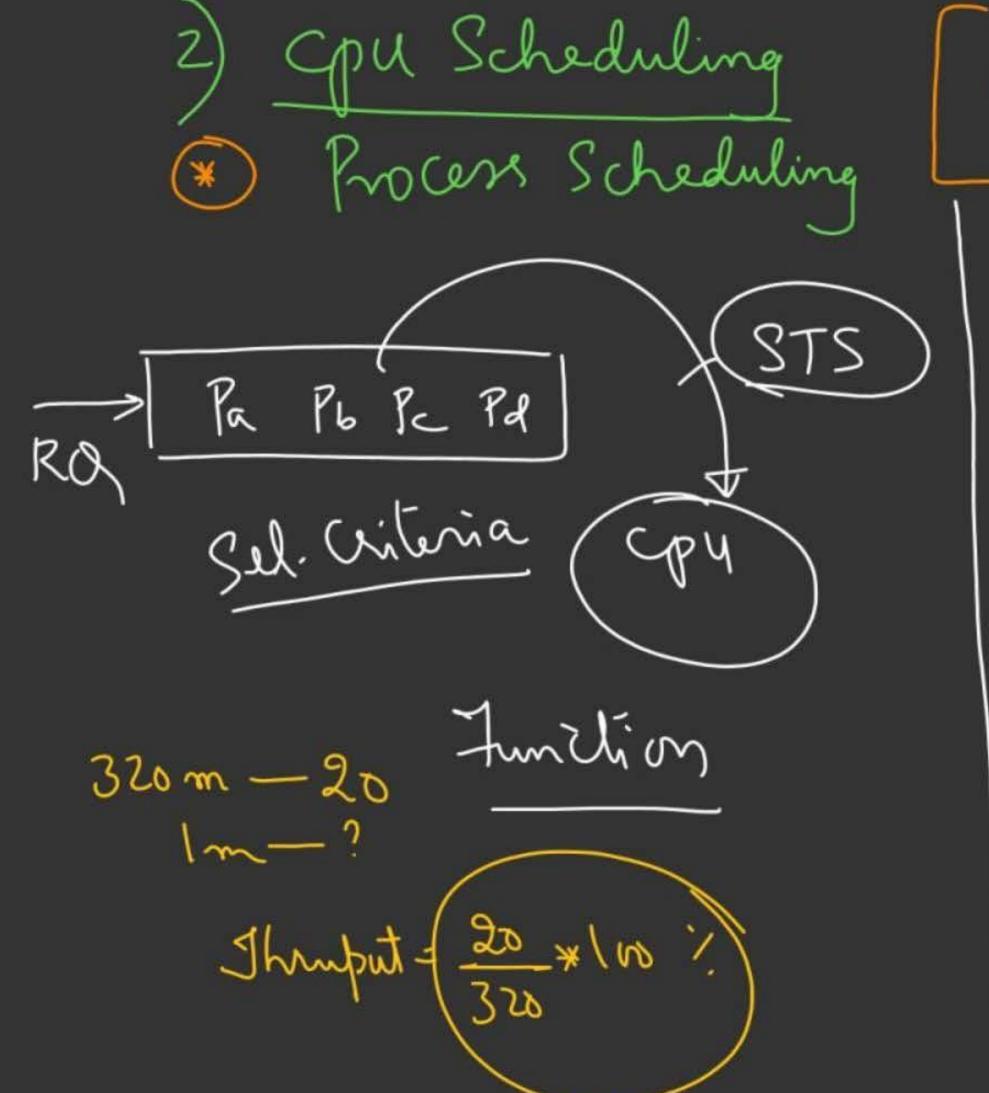






a) What will be the State of you, Suring Content-Switching? Dispatcher in runing on april to Some The Pas, has to lived the Pas from Ra onto 94

During Content-Switching (Dispatcher), no Useful (user Process) activity takes place on cpy (overhead) Content-Switching-lime Cpy Scheduling overhead (Freiler) Freiler Dispotch Laterry



Derign of Short Jeem Schedulen

Goals of Epu Schedulen

1. Man. cpu utilization

(Man. Thruput)= No. of Process

completed Per

unit time

2. Minimize Turn-Around-time (TAT), Waiting-time (WT), Response-time (RT)

Process-limes:

1. Arrival time (AT): Submission time

2. waiting-time (wT)

Ready

3- Scheduling-time (ST)

4 Burst-time (BT)

Copy-BT)



Completion time (CT);	
A.T 7) Jum-t	Arning
(New) Ready) Sime	(TAT)
CT-	-AT)
5 State- Timing diagram	7
4	
W.TI B.TI IOBF WIZ B	512 W13
Pri R.a CPU IND Ra C	CPU Ra
AT ST	Pr
- TO-BUNK-time (IOBT) TORY	
5)	<u>ci</u> 50
F) IO-Burst-time (IOBT) Jory	C120

1. Arrival time: Jime at which process makes entry into (AT) Ready 'Q' from New State
2. Waiting time: Jime Spent by Rocers in R.O, waiting (WT) for cpu is W.T
3. Burst time (ST): Sime Spent by process running on apy is
4. In Burst Jime Jime Spent by Rosens in perf. Io 5. Completion Jime (I) Jime at which process complete its enecution a leave (Jerminate)
6. July-Around Time: Jotal Jime Spent by Process from (TAT) Arrival to completion;

A.T

Process Concepts

-> Program vs Process

-> Process as an ADT

-> Process Structure

-> Procen States

-> State Transition singram -> Scheduling &'s

-> Quewing Disgram

-> L.T-S+ S.T.S+ M.T-S

-> Dispatcher &
Content Switching

-> Gods of S.T.S -> Process Times