2CB0627

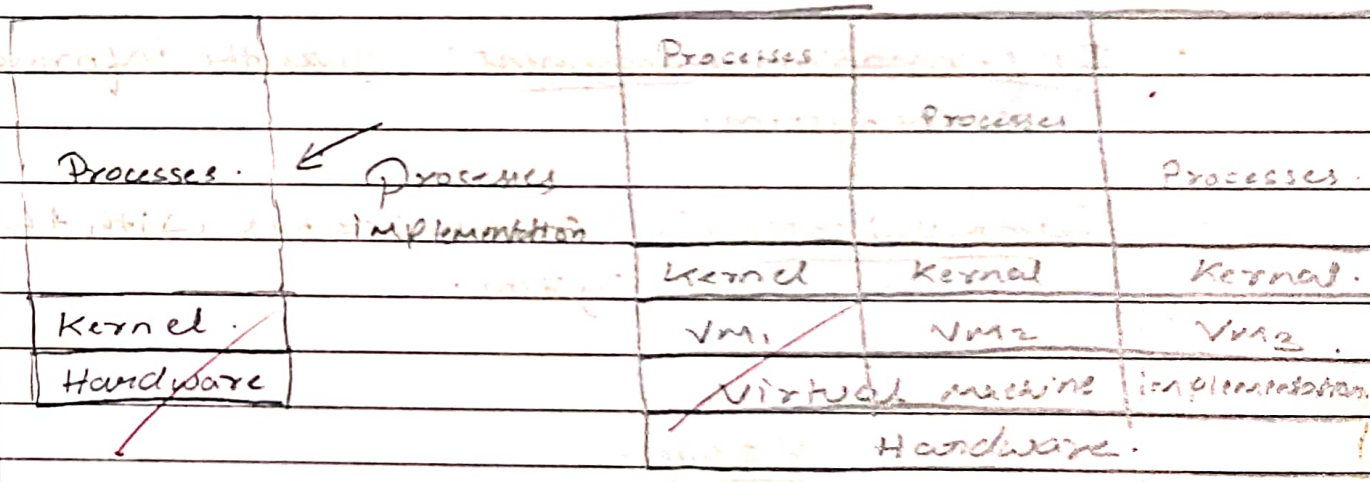
DD MM YYYY

Module - 1

2) a. Virtual machines use the hardware part of the system in executing environment.

In this illusion the hardware part of the system in executing environment will be held in own private computer.

This illusion process has the separate processor. & memory. Host os is the main os all other os installed are called guest os.



b) There are six types of system calls:

1) Process control
2) file management
3) device management
4) Information management.
5) Communication

6) Protection

- Process Control :- ~~bits~~ controls the . Input mode. Ex the process of the system.

- file management :- Manages all the files of the system

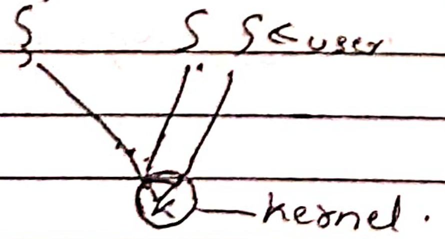
- device management :- manages the devices in the system

- Information management :- Gives the information to the system.

- Communication :- communicates with the system.

Module -2

3) b) • Many to one threading model:



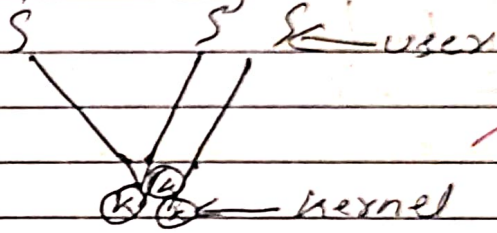
→ many user to one kernel

D D M M Y Y Y Y

- One to ~~many~~ one threading model

one user to one kernel

- Many to many



Many to less or more kernels.

* Above mentioned are the different types of multithreading models.

4) a)

Process	A.T	Burst time	Priority
P_1	0	9	3
P_2	1	4	2
P_3	2	9	1
P_4	3	5	4

FCFS.

D D M M Y Y Y Y

Process	A.T	B.T	Priority	W.T	TAT.
P_1	0	9	3	9	9
P_2	1	4	2	18	17
P_3	2	9	1	22	20
P_4	3	5	4	27.	24.

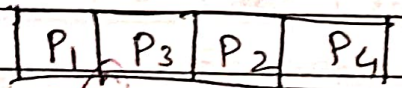
TAT = A.T - W.T.

premptive

0 9 18 22 27.

SRTF

Process	A.T	B.T	Priority	W.T	TAT.
P_1	0	9	3	9	9
P_2	1	4	2	18	17
P_3	2	9	1	22	20
P_4	3	5	4	27	24



0 9 18 22 27.

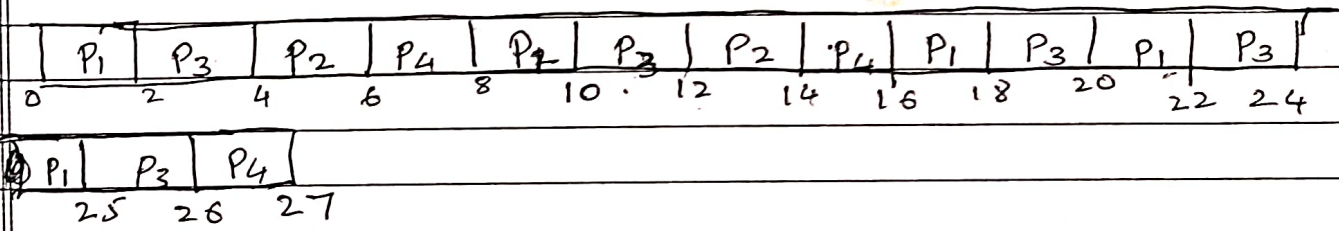
D D M M Y Y Y Y

Round robin: qv = 2ms

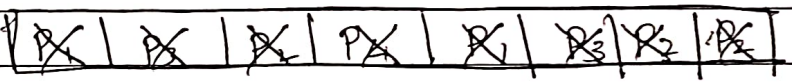
Process	A.T	B.T	Priority	W.T	TAT
P_1	0	9	3	9	9
P_2	1	4	2	18	17
P_3	2	9	1	22	20
P_4	3	5	4	27	24
				76	70

a) running queue.

Ready queue



Ready Queue



b) Distinguish btw Process & threads

Process	Threads.
has high memory Storage	has low memory Storage.
thread → user.	multi thread → user

D D M M Y Y Y Y

Quiz

1) a) ✓
2) a) ✓
3) b) ✓
4) b) ✓
5) d) ✗