Cellpage Page No: Rupinder Goyal 19CS10050 The following one are the three ways:-The process executes a system call An interupt occurs Synchronous exceptions like traps occur

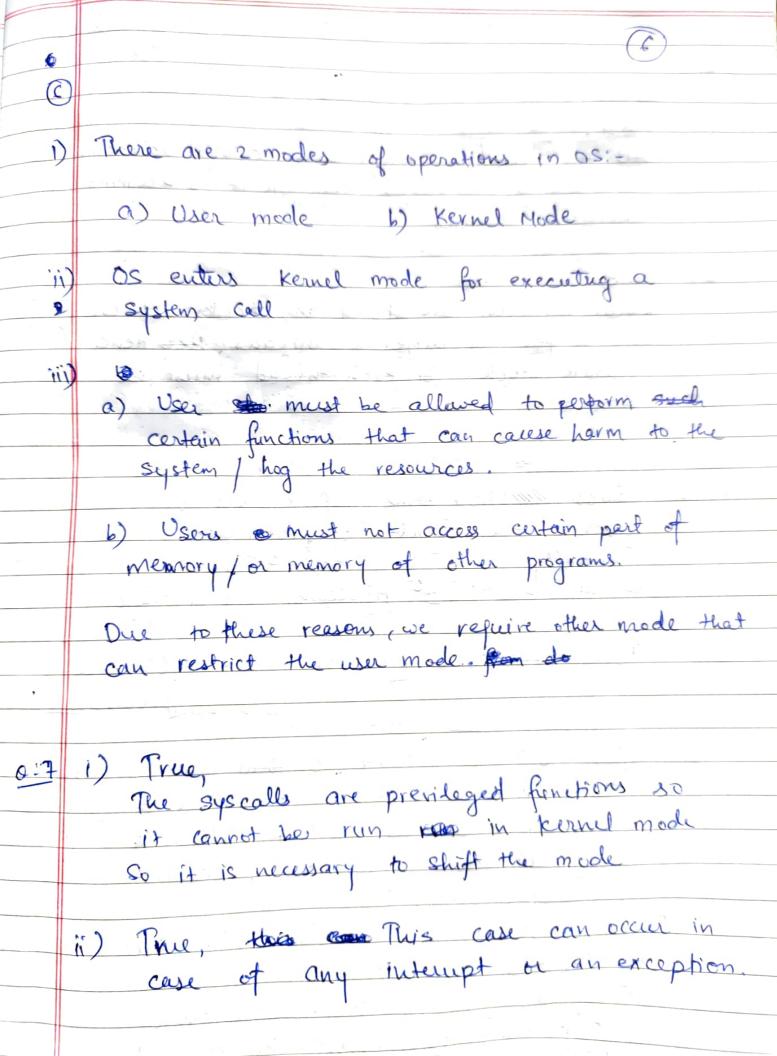
2) Advantages! a) "User level threads are fast and more efficient that kernel level thready b) User larel threads can also run on Os that doesn't Support threads Disadvantagest The Phe entire process gets blocked of the wes level thread performs brocking operation.

In the kernel process, other threads only
that thread gets publicked

Ready to Running
Yes, it is possible.
When the context switch occurs, one of the processes in the ready queue is selected and executed. Therefore State changes from Ready to Running.
Running to Ready State
Yes, it is process possible If Bot the running process has a timer interupt, the process state changes from running to ready state
Running to Waiting
Yes, it is prop possible
When the process run running process needs ay I/O, it is state is changed to Running to waiting state
Ready to Waiting
Mo, It is not possible Wolfer of Markets of present of the writing green, process must be in the runing state

Deating state to Ready State Yes, it is possible. requested that IO, is shifted from waiting to ready state. Preemptive Shortest Job first Waiting time: 8-2 = 6 me Total Hime: 45 avg. waiting time = 45 = 7.5 msec

(11 -Waiting bimes: Howal P1 = 0+ (9-3) + (24-12) = 18 msec man of the same wife to P2 = (3-2) + 17-16 = 12 msec 13 = (1-3) + (21-9) = 15 msa PY = (12-5) = 7 msec 15 = (14-6) + (25-17) + (30-28) = 18 msec P6 = (18-8) + (28-21) 2 17 mec Avg. = 18+12+15+7+18+17 = 14.5 msec



Cellpage Date: / / Page No: # include < sys/shm.h> Key-t Key = 1234; int shmid = shinget (key, 100, 0666) IPC-CREATS; void shm = (void +) shmat (shmid, NULL, 0) ;

e) 9x13 +23 x 10 +23x10+13-20

= 390 ms