18 (S100 48 Sahil Jirdel Date...../..... a) True. Since the fine like is greater than 1.1 (PV lowest of each process, we won't need to switch boy different processes without completing ongoing process which is similar to on traditional multiprogramming. 1.2 hyack the CPV. False. In multithreading the data stack (d) False. Shortest job first is theoretically in the strange waiting time and it is non pre-emphire CPU scheduling True. Each process will have separate to copies of the variable defined within a function of sal case of parent-child process. However in multithreading the data stack is same for all threads. 1.5 process to send signal to the kernel. instead of different process. Assuming a is a local pariable, at is false since different copies for the transmit Echild is made.

Date...../...../..... Page..... is printed 22+ 23=12 lines We need be make sure that the kee provides some basic functionalitées que all the platforms. If we could treat line a function (all, it won't treat 2-1 D kernel provides various funtionalités in privilèged mode which we cannot give to a normal fundien. Dernel is interrupt driven a which won't be supported by a normal function. 2.2 Yes using shared memory we can achieve this functionality. **Orchies**

Date...../...... Page.... (i) Running to Ready In case of interrupt, the state is transitioned task to ready from surry (i) Waiting to Ready When a process's completed on 110 task is completed. I state transition to ready from waiting. CPU line-TUI. Output 1/0104 the three process structe of 1/0

2-9 unit Pl is processed 1/ P1, P2, P3, Orchies ed joer binis

Page..... from 9-10 Pl completes is output d'in parallel, 9-23 P2 is provessed. 23 - 25 PZ's output is completed & gin parallel 23 - 44 P3 is processed 4- 47 P3's output is completed. In a diagram: P1: PZ Wroceld 83 Henre CPVis idle in i.e. for 4 anits. 0-2 \$ 44-47 Each process waits for & (100-1) hime quantum + 8 sch (h + 5x106) = $+5x10^{6} = 1 = 0.01010101$ = 0.010101 - 0.000005= 0.010096 seconds

(Prehies

Date...... Page..... Thus the time quantum must be \$38. PI PZ PI DZZZ 3 For the first & seconds Plicin U-1

Plin 2-4
New & when Praviored, remaining

Time for Plis 2, P3 is 3 & Phis Z

Thate cases: 700 2 : 00 22 Z (2: Pyin 4 - 4 + Z Plin 4 7 - 6 + Z ans waiting time = (1+2)+(0)+(3+2)+0 =7 Z = 2 Eine z must le < 2 point $\frac{2(2 \times 3) \cdot P_{1} \cdot n}{P_{1} \cdot n} \cdot \frac{2-5}{5-5+2}$ Py in 5-5+2

P3 in 5+2-8+7

and wait hime = (1)+(0)+(1)+29+

	Date//
	Page
	2 = 47.
	U
	7 2 = 4
	Sine 26-2 63, rejected.
3	42
	PI = 2-51
	P2 ' B - R
	Ou i P = = =
	1 2 - S + 2 ,
	Avy wait = (1)+(0)+(2)+4
	4
	=7 nosal.
	Henry Z.
	Mence Z must le 2 millise aon
	- Course was