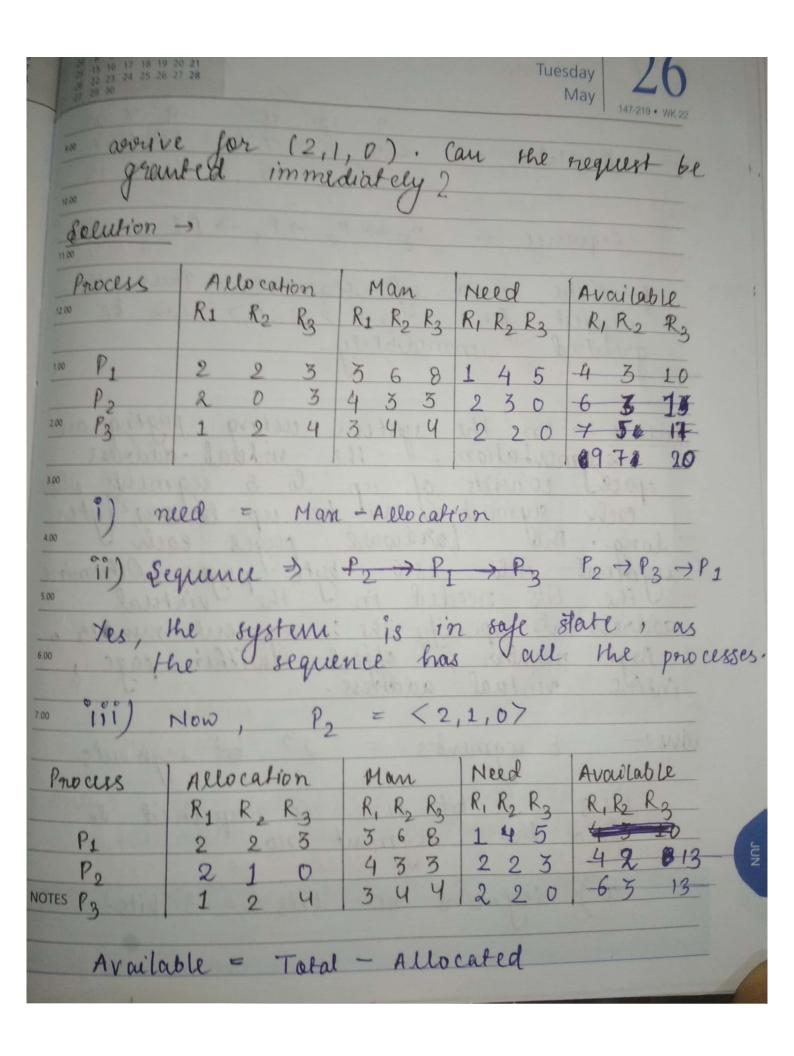


146-220 • WK 22 May	27 18 19 22 25 26	20 21 22 23 24 27 28 29 30 31
Solution -> rotal tape drives =	12	
Process Need selocated	7.8	20014
P 2 10 5	ų5 .	A
Po 10 5	15	A
P 9 2	- 8	3
12.00	- 8	A GENERAL
Available = Total- Allocated		
1.00 = 12 - (5 + 2 + 2)	Frank	Buss
23		
2.00	A	
Sequence > P1 > P0 > P2	12	
1) 2 of 3 available drives are	give to	P1.
4.00 After completion of P1	2 20	none
derves get ferte	TGIA	
5.002) Now there are 5 availab	ble de	uves
which can be given to t	o Aj	ter
500 completion of I po nov	v tob	al
available will be 10.		1000
7003) Similarly process P2 will	be c	ompleted
	Us aqua	bar la al
Ques: 3 -> Consider the following	smaps	There of
V OAS NOTE	No. of the last of	<u></u>
Answer the following ques ass	ry ou	ukers
	materi	or moo No
NOTES () i) What is the content of matrix need?  iii) Is the system in a safe state?  iii) If a nequest from process 12		
ill) Il a nousell fanon	Dance	ex Po
- iii) If a nequest from	J'iww	00



May 148-218 \* WK 22 - Avoi lable >> P2 -> P3 -> P1 < 2,1,07 can be Que 4! - on the system using 300 space consists 400 long. that hardware signest into 256 - byte 5.00 The bits needed in the address to specify the: segment 600 Page number, Offset Unither dus! Thus, 3 bit size is required NOTES Segment no. bits = 3

21 bits bit. vintual 32 bits. problem by using semaphores? Represent each chopstick with a semaphore is philosopher truies to grab a chopstick by executing wait () operation on that NOTES

by encuting the signal() operation on
the appropriate semaphones semaphore chopstick [5]; 11.00 shared data All value are The structure of philosopher i wait (chopstick [i]);
wait (chopstick [(i+1)%5]); 11 eat signal (chopstick [i]);
signal (chopstick [(i+1)%5]) 11 think 3 while (true); The solution guarentees that no two neighbours are eating simultaneously. NOTES