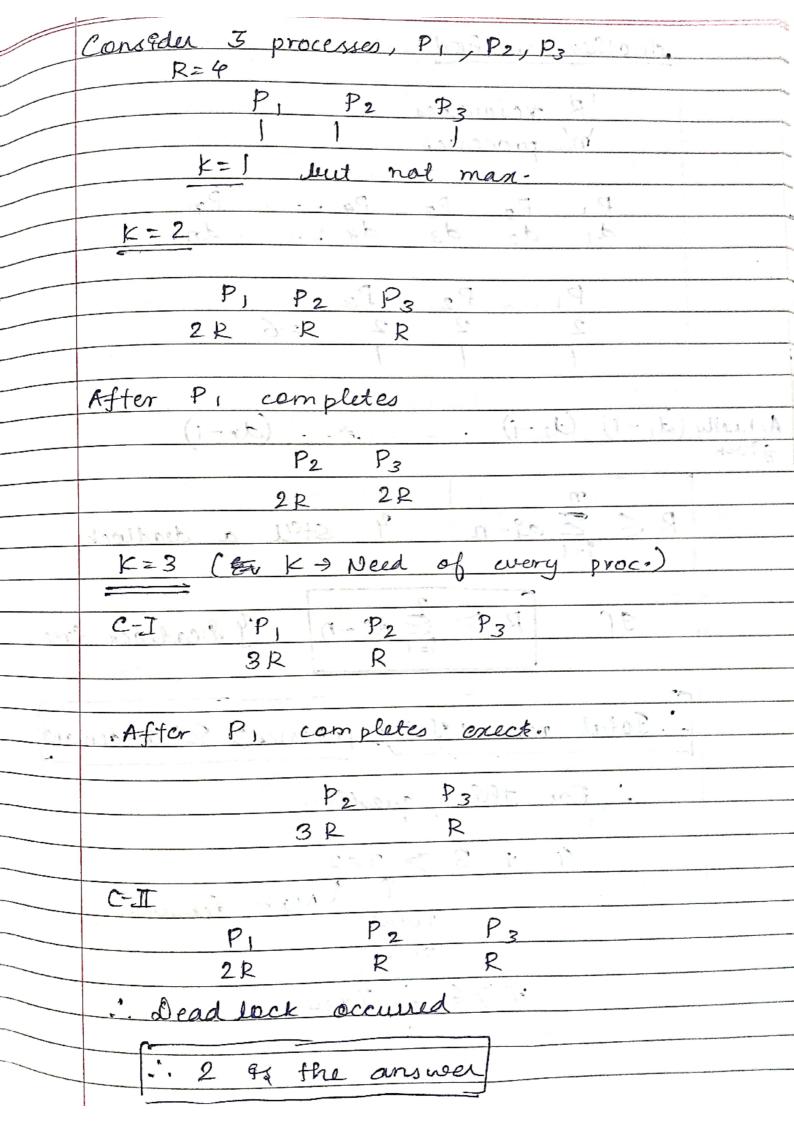
	Gate questsons:
-	
0	A system requires 2 units of resources
)	having 3 process. The min. ng. of units of R such that ng. dead lock will occur.
	of R such that no dead lock will occur.
a)	3 5 96 24
	The state of the s
	Lets ass. 3: resource P1, P2, P3 each
	ma: 2 resources
	reg. 2 resources Total resources = 3 x2 = 6
	For eigenconsider R=2.
	C-I
	P1 P2 P3
	RR

	PAGE NO.:
	CI constitue carente E
The state of the s	P, P, D
	P, P <sub>2</sub> P <sub>3</sub> 2R
	completes execution after & it
	Jessely geve 2 units to P, then after it completes execution give them to P2 & then to P3.
	1101000
	But after ence of P, 9f Po gets one
	resource & then P3 gets another, then
	deadlock would occur 2 not a réght answer
	answer
10000	consider R=3
	C-I
	and 2R Rend Rend Land
2	,
	A Gton B
	After P, completes execution
	P2 P2 2 2
	$\frac{P_2}{2R}$ $\frac{P_3}{R}$
	:. After P2, P3 can complete execution
A 1, 200	
	C-Time will be a
	Para 1/2 P2 P3
	R R R
	i. In this case, there's a deadlock
•	R73
	A to see a property of the property of the second
	Conseder R=4
	$C-\overline{J} \qquad P_1 \qquad P_2 \qquad P_3$
-	op R R

	1200 ·
	After P1 completes execution:
ini managana na sakabali ka	After Fleening.
nartes in an expeditor - an or	Po P3
and the second second second	P2 P3  2R 2R  there won't be any
The second secon	and be any
(w.č.	In this case there won't be any
	dead lock.
and the second second second	The same of dead lock of the
SAME OF STREET	and blunch traken
	Total merousces = n x (min. reg1) +1
pro to a State of the State of	10100 1050000
de constant and the second	req = 2 mgn. Total resources = n × (mgn. req1) +1  gave  No of resources man. requirement
mp obsessed and management of the co	
	Max: process allocated Still dead lock.  If all process have same min. req.  Total resources = n x (min. req 1)
	if all process have same men- req.
	Total resources = n x (min. reg1)
	1000
	Eer
	P <sub>1</sub> P <sub>2</sub> P <sub>3</sub> 2
	2 3 4 -) Always groe 1 res.
	less than required
	: 9 max. res. still deadlock
q.	Conseder a system with 3 processes that
	share 4 enfance of an
	Each process of same resource itype
	Each process can sequest a man of (k)
porter (planter augment) Millionessam (Ma	anstances. The largest value of k that well
Sentrenti militi nemata tins Jibu waste	always avoid dead lock es?
ì	



	Another method
	R resources
	m' processes.
	m processes
	P, P2 P3 P4 Pm
	d1 d2 d3 d4 dn
	P <sub>1</sub> P <sub>2</sub> P <sub>3</sub>
	2 2 2 =6
Artialli	$(d_1-1)(d_2-1)$ ( $d_n-1$ )
grown	$(d_1-1)(d_2-1)$ ( $d_n-1$ )
0	
	n 30
	R   E di-n   G   Still a deadlock
	i i i i i i i i i i i i i i i i i i i
	9f R > Édi-n y Deadlock free
	i=1 Jeadlock free
	· Call
	- Jotal res. + Jotal processes > Jotal demand
	For thes question
	$4 + 3 > 3 \times 2$
	1 1
	Total Man demand
	4 + 3 > 3×2  Total  proc.
	776
The second secon	776 : True