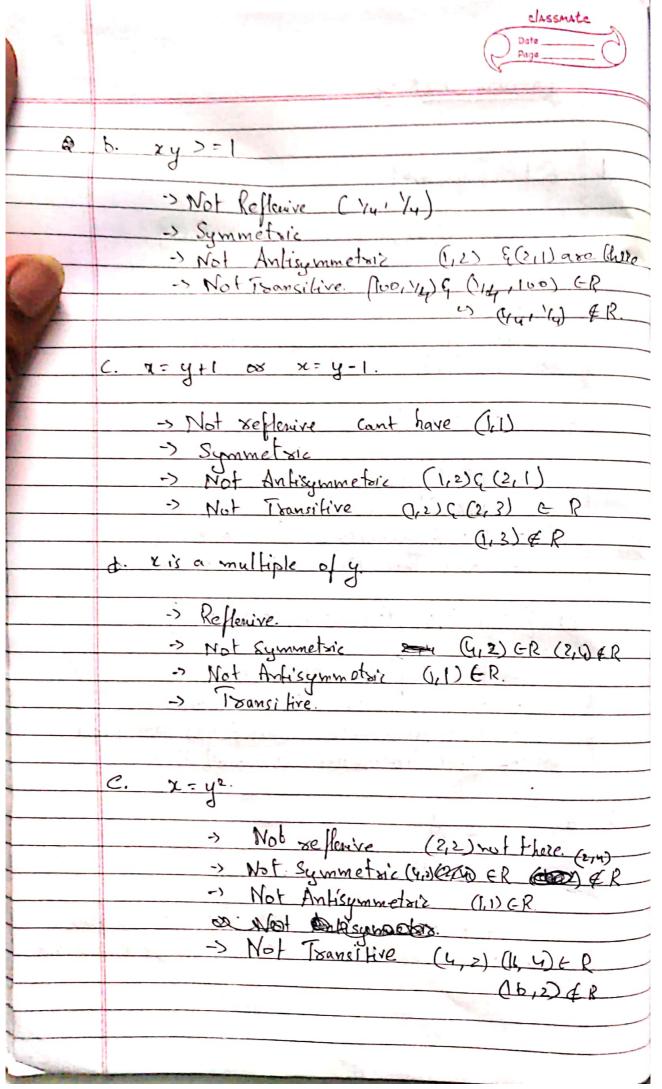
	Problem Sheet -4
Į.	Set {1,2,3,4}
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	a) {(2,2), (2,3), (2,4), (3,2), (3,3), (3,4)}.
	-> Not Reflexive. (11) not there  -> Not Symmetric (412) not there  -> Not Asymetric (312) is there.  -> Transitive
	-> Not symmetric (412) not there
	-) Not Asymetric (3,2) is there.
	-> [8ansilive
	b) { (2,4),(4,2)}.
	-> Not Reflexive (1) not there
	-> Symmetric
	-> Not Asymmetric. (4,2) and (2,4)  -> Not Asymmetric. (4,2) and (2,4)  -> Not Iran Citive (2,2) and those
	-> Not Transitive (2,2) not there.
	$()$ $\{(1,3),(1,4),(2,3),(2,4),(3,1),(3,4)\}$ .
	-> Not Rellevive about there.
	-> Not Reflexive (1) not there> Not Symmetric (4,1) not there
	-> Not Asymmetric (31) &(1,3) are store> Not Transitive (1,1) not there.
	-> Not Transitive (1,1) hold there.
0	
રે.	a. x 1= y.
	> not sellewise (11) not there
	-> not sefferire (>1) not there
	-> Not Anlisummetric (2,1) & (1,2) are there.
	-> Not Anlisymmetric (2,1) & (1,2) are there.  -> Not Transitive (1,2) & (2,1) & R but not
	(1,1)
-	



4	Page Fage
- (	. L
3	R, = {(1,2), (2,3), (3,4) } R, = {(1,1) (1,2) (2,1) (2,2), (2,3) 6,1) 8,20 (3,6) {
a.	(R. UR2) = {(1,2), (2,3), (3,4), (1,1), (2,1), (2,2), (3,1), (3,2) (3,3) (3,4)}
Ъ.	R. M. R. [- {(1,2),(2,3),(3,4)}
<i>C.</i>	R, -R2 => Nall Set
٥.	R, - R, : {(1,1), (2,1), (2,2), (2,3), (3,1), (3,2), (3,3)}.
<u>(</u> ,	R, -> 2 divides y. R R, -> x is a multiple of g
a	R. URz. (a, b, a)
Ь	R1 n R2> (a1a)
С.	R, - R, -> A (a, b) ER, Such that a + b.
d.	R2-R, -> (a,b) = R2 such that a 76.

		clasemata
		Date Page
J.	R. {(1,2), (1,3), (2,3), (6,4), (3,1)	
	R. {(1,2), (1,3), (2,3), (6,4), (3,1) S. {(2,1), (3,1) (3,2), (4,2) }.	,
13	S somposition R.	
	{(2,2), (3,3), (4,4)}.	
-	La company of the second	
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5. R. EGIN, (1.5), (1.6), (1.4), (3.1) } E ((2.1), (2.1) (3.2), (41) }.

S remped composition R.

{C12), (3,3), (4,4)}

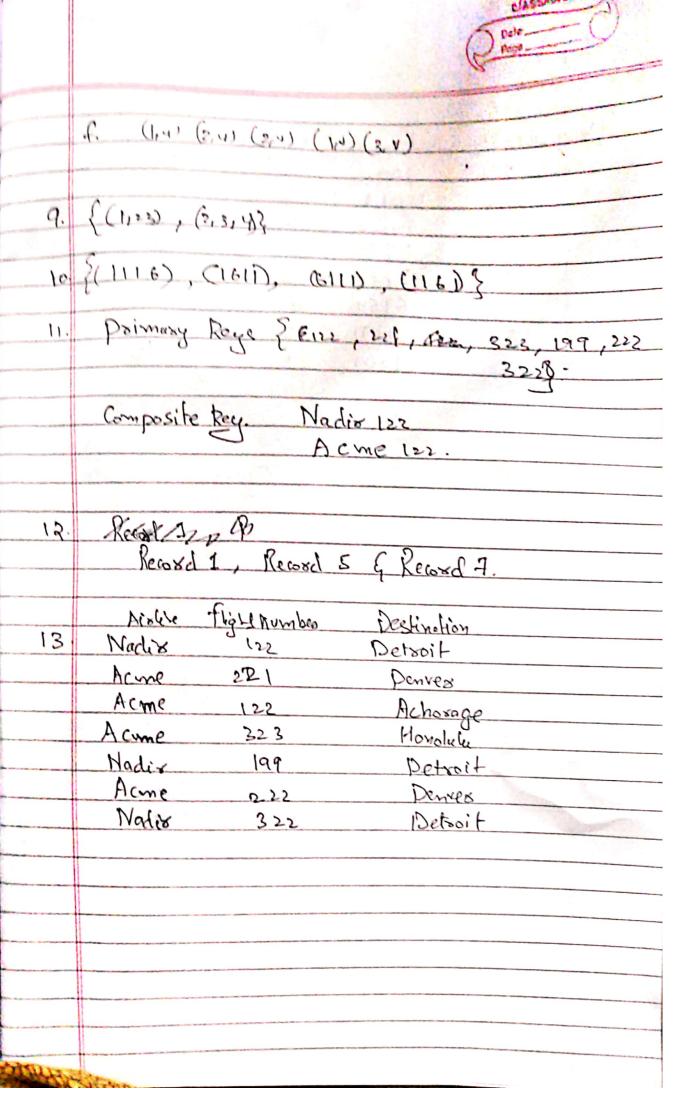
6 a. R. 1 2 3 4 5 2 0 0 1 1 0 0 3 1 0 0 1 1 4 0 1 0 0 1

a 00 1 10 1 0 0 1 1 0 1 0 0 1

1 0 0 0 1 1 0 0 0 1

$R^{3} = 1  1  1  1  1  1  1  0  0  1  1$	10.32	3 ,
		03
		K3= 1 1 1 1 74
$R^{3} = 1  1  1  1  1  1  1  1  1  1$		00110
$R^{2} = 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1$		11 0 1
$R^{3} = 11111$ $R^{3} = 11111$ $R^{4} = R^{5} = R^{3}$		
$R^{3} = 1                                  $		0 10
$R' = RS = R^3.$		
$R' = RS = R^3.$		03
R4 = R5 = R3.		
R4 = R5 = R3.		
		NELLEN CONTRACTOR SERVICE SERV
		DV - D - V 2
		K '= X> = K3.
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7.	
	P
	O R= 1,2 1,4 1,6 1,8 1,10
	Q 3,5 3,7, 4,6 6,8 7,10
	6
	<b>6</b>
	& S= (2,4) (3,6) 57 79 810
	89 82 99 50
	B C C C C C C C C C C C C C C C C C C C
	130. POS = 216 318 510
	0
	DSOR 1,4 1,9,110 1,8
	1,7
8.	3,9 6, 10, 6,9 6,8
8.	A = 1,2,3
	18 = 4.V
	R = (1,4), Eus (2, V) (3,4)
	R, = (1,4) (3,4)
~	a. (1,4) (1,4) (3,4) (1,4) (3,4)
-	
	8r. d (3, 4)
-	X
	e- K 1 b d 1
	2 1 1
	3 1 0 3 1 1
-	3 11
	b. (114) (2,4) (2,4)
-	(2,4) (2,4)
-	



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