	No.:
	Discrete Structure Assignment 12
	Section : 2
	Group Member
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	1)(i) aRb \abella a -b \in Zeven
	R={(6,2),(12,2),(3,3),(6,4),(6,2),(6,6),(9,3),(12,4),(4,5),(12,6)}
	R= {(6,2), (12,2), (3,3), (6,4), (12,4), (9,5), (6,6), (12,6)}, (3,5)}
0	
	9 (1)
	(iii) The Ismain of R is {3, 6, 9, 123.
	The range of R is {2,3,4,5,6}
	The same of the Early Dollar
	2) R = {(1,8),(3,10),(8,15),(8,1),(10,3),(15,8),(1,15),(15,1)}
	<del>Lipse</del>
	Equivalent relation exist it a relation is reflexive symmetric and transitive.
	ting x By such as no existent of (1,1), (1,1), (8,6)(10,10) and (15,15),
	Since there is no any element related to itself, xky is not reflexive.
	Thus this relation is not an equivalence relations.

No.:	
3) (;)	s t u v
and the same of the board of the same	5 T U V
M <sub>R</sub> :	+ 0 1 1 1
ALCOHOL: NAME OF THE PARTY OF T	
	ΛΓ <sub>0</sub> 0 0 1
(:.)	s t u v
In- deg	gree 2 2 3 1
Out- degr	
(iii)] o relo	ation is portiol order, it is reflexive antisymmetric and transitive.
Relation	R is not reflexive, since there is no existent of (v,v) in R.
	R is not antisymmetric, since there are existent of (s, w) and (w, s) in R.
111	107 [1110] [1117
0 1	11 8 0 1 1 1 2 1 1 1 1
1 0	10 10 10 11 10
100	007 [0000] [000 07
Sinte M	MR & MR & MR, relation R is not transitive.
In cond	Laion, relation R is not postiol order.
4) If v and w	is one-to-one, then when v(x)=w(x), x=x.
~(n):w(	(3)
4-x2=2,	
	4111-4
Since x +x,	, and w not one-to-one relation
4) When x=-2,	, v(x):4-(-2)2 w(x):2(-2)
	: 4 - 4 ; - 4
	: 0
When x=0	v(x)=4-10)2 , w(x)=2(0)
	:4.0 :0
	: B1
When x=2,	v(1)=4-(1)2 w(x)=2(1)
	:4-4 :4
	: 0

For TZZ 1 Ft = 2 (Ft-1+ = Ft-2)
The revulence relation of chemical (for tzz is F+= F+-1+ + F+-2, Fo=5.0 F1=4.5.
(ii) Fo = 5.0 Fo = 4.5
F2 = F, + 5 Fo
= 4.5 + 5 (5.0)
: 4.5 +1.0
= 5.S

No 6) F3 = F, + + F. : 5.51 7 (4.5) : 5.5+ = 20.9 : 6.4 Fu: F3+ 3 Fz = 6.4 · \(\frac{1}{2}(5.5) : 6.4 +1.1 : 1.5 Fs = Fu+ = F3 = 7.5+ = (6.4) : 7.5 + 1.18 : 8.78 1) (m) w(n) { if (n=0) return 5 else if (n=1) return 7 else return w 2w (n-1) + w (n-2) 3 Trace output of n=4 in w(n) WHY w (4) ( w(4)=109 1 n=4 W(5) w(2)=19 Sine n # 0 and 1 4:5 return 2w(3)+w(2) KReturn 2(45)+19 Since no ond 1 Retun 2(1)+5 return 2~(1)+~(0) w (3) w(3): 45 n = 3 w (1) w(1):7 Since nto and 1 n: 1 return 2~(2)+~(1) = Return 2119)+7 Since nal Return 7 return Based on tracing w(1)=7, w(2)=19, w(3)=45 and w(4)=109.