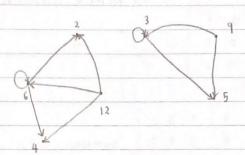
	No.:	Date:
	ASSIGNMENT 1.2	
	DISCRETE STAUCTURE	(COS DE)
	SECTION 02	(1.73)
		50
	LECTURER : DR NOORFA HASZLINNA BINTI MUSTAFA	
	Members:	MATRIC NUMBER
1	NUR FAATIHAH BINTI MOHAMAD FUAD	A24CS0161
2	NUR ALIAH IZZATI BINTI AZHARI	A24CS0154
3	DAMIA ZAFIRA BINTI NAWAW)	A 24 (50241

1)	R is defined	by	(R	Ь	if	and	only	ìf	a-b	ìí	an	even	integer.
	A= {3,6,9,123	to	В		C 2,	3.4.	5.6	}						

1) R= £ (3,3), (3,5), (6,2), (6,4), (6,6), (9,3), (9,5), (12,2), (12,4), (12,4)

(ii



iii) domain = 63,6,9,123 range = 62,3,4,5,63

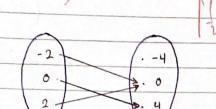


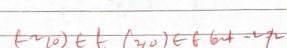
2)	D={1,3,8,10,15}, n,y \in D, n Ry only if y-n is multiple of 7 R={(1,1) (1,8) (1,15), (3,3) (3,10), (8,1) (8,8) (8,85), (10,3), (10,10), (15,1), (15,8), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15,15), (15
25	$ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \\ 1 & 0 & 1 & 0 & 1 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 1 & 0 \end{bmatrix} $

TOP A, A Captain's Product

	Net. Date:
	s t w v
3)	i) MR = S [1 1 1 0]
	t 0 1 1 1
	u 1 0 1 0
	V 0 0 0 0
	V [0 0 0 0]
	ii) stwv
	in-degree 2 2 3 1
10	out degree 3 3 2 0
	Wights .
	iii) => Not reflexive because does not have set it
	terrente de conte ques not nove an I on its main
	diagonal which is (u,v) ER / V
15	> Not antisy mmetric because (4,5) ER and (5,4) ER
	[1110] [1110] [11115]
	0 1 1 1 8 0 1 1 1 = 1 1 1 1
	1010 1010 1100
20	$ \begin{bmatrix} 1 & 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 1 & 1 & 0 & 0 & 0 & 0 \\ 1 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \end{bmatrix} $ $ \begin{bmatrix} 1 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\ 1 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \end{bmatrix} $
	⇒ Not transitive
	V
1	i hance it is a first to the second of the s
+	i Hence, it is not a partial order function.
1	
25	
-	
1	
+	
30	
-	
1	

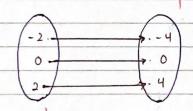
4.
$$V(x) = 4 - x^2$$





- => Not one to-one because there is two arrow printing to Y= {0}
- => Not anto Y because there is no acrow pointing to Y = {-4}
- => Not bijection because it's not one-to-one and not onto Y





$$W(-2) = 2(-2) = -4$$

$$w(0) = 2(0) = 0$$

$$w(2) = 2(1) = 4$$

No.:

Date:

5.	$i) g(x) = \frac{2}{3} x$	
	g-1cy) = x	
	$y = \frac{2}{3} \times$	-

ii)
$$(g \circ g \circ f)(x) = g(g(f(x)))$$

= $g(g(7x-2))$
= $g(\frac{14}{3}x - \frac{4}{3})$

$$x = \frac{3}{2}y$$

$$=\frac{2}{3}\left(\frac{14}{3}\times\frac{4}{3}\right)$$

$$g^{-1}(y) = \frac{3}{2}y$$

$$\frac{-28}{9} \times \frac{8}{9}$$

3

,	No.: Date
7)	We=5 W,=7 Wn=2Wn-1+Wn-2 N>2
	recursive algorithm
	input =n
	output = w(n)
	w(h)
	if (n = 0) return 5
	return 5
	else it (h=1)
	return 7
	else return (D*w(n-1) + w(n-2))
	/3
	WCH) N=4, N ≠1, N ≠0 W(4)=109
	w(4) = 109 vetum(x*w(3)+w(2))
	w(3) = 45 when n=4
	$w(3), \eta=3, \eta\neq1, \eta\neq0$ $w(4)=109$
	return (2+ w(2) + w(1))
	$W(2) = 2, n \neq 1, h \neq 0$ $V(2) = 19$ $V(2) = 19$ $V(2) = 19$
	return (2*W(1) 4W(0))
	w(1) = 1 $w(1) = 1$
	return 7
	(a - b) = 0
	w(0), n=0 \ wo=5 \ return 5
	Telning 5