Sets Billio Yes accounse it is a sollection of well— defined elements and will not vary from foreson to puson. (iii) No. Because it is not well—defined and may vary from person to person. (iii) No. Because it is not well—defined and may vary from person to person. (iv) No. Because it is not well—defined and may vary from person to person. (iv) No. Because it is a collection of well—defined elements and will not vary from person to foreson. (v) Yes Because it is a collection of well—defined elements in a selection of well—defined elements in a selection of well—defined elements and will not vary from person to foreson. (vii) Yes Because it is a collection of well—defined elements and will not vary from person to foreson. (viii) Yes Because it is a collection of well—defined elem and will not vary from person to person. (viii) Yes Because it is a collection of well—defined elem and will not vary from person to person.		12 May, 2020
ferson to puson. (iii) No. Because it is not well-defined and may vary from person to person. (iii) No. Because it is not well-defined and may vary from person to person. (iv) No. Because it is a collection of well-defined elements and will not vary from person to ferson. (iv) Yes. Because it is a collection of well-defined elements i. e. 1, 2, 3,, 39 and will not vary from ferson. (vi) Yes. Because it is a collection of well-defined elements and will not vary from ferson. (vii) Yes. Because it is a collection of well-defined elements and will not vary from ferson to ferson. (viii) Yes. Because it is a collection of well-defined elements and will not vary from ferson to ferson.		
(iii) No. Because it is not well-defined and may vary from freson to preson. (iv) His . Because it is a collection of well-defined elements and will not vary from freson to freson. (v). His . Because it is a collection of well-defined elements i.e. 1,2,2,,29 and will not vary from freson. (vi) Hes . Because it is a collection of well-defined elements and will not vary from freson to freson. (vii) Hes . Because it is a collection of well-defined elements and will not vary from freson. (viii) His . Because it is a collection of well-defined elements and will not vary from freson.	8.1 Ci	Yes - Because it is a collection of well - defined elements and will not vary from ferson to puson.
(iii) No. Recouse it is not well-defined and may vary from person to person of well-defined and may elements and will not vary from person to ferson. (v) Jes. Recouse it is a collection of well-defined elements i.e. 1,2,3,,29 and will not vary from person. To person, (vi) Jes. Recouse it is a collection of well-defined elements and will not vary from person to ferson. (vii) Jes. Recouse it is a collection of well-defined elements and will not vary from person to ferson. (viii) Jes. Recouse it is a collection of well-defined elements and will not vary from person to person.	(<i>ii</i> i)	No. Because it is not well-defined and may vary from person to person.
(vi). Yes. Because it is a collection of well-defined elements i. e. 1, 2, 3,, 39 and will not vary from foreson. (vi). Yes. Because it is a collection of well-defined elements and will not vary from foreson to foreson. (vii). Yes. Because it is a collection of well-defined elements and will not vary from power to puson. (viii). Yes. Because it is a collection of well-defined elements will not vary from power to puson.		
elements i.e. 1, 2, 3,, 99 and will not vary from feveron. (vi). Yes. Because it is a collection of well-defined elements and will not vary from feveron to feveron. (vii). Yes. Because it is a collection of well-defined elements and will not vary from preson to preson. (viii). Yes. Because it is well defined and will always remain the same.	(w).	See Because it is a collection of well-defined elements and will not vary from person to ferson.
(vii). Yes. Because it is a sollection of well-defined elemand will not vary from preson to preson. (viii). Yes. Because it is well defined and will always remain the same.	(1-).	elements i.e. 1,2,3,,99 and will not vary from
(viii). Yes Because it is well defined and will always remain the same.	(vi).	Jes. Because it is a collection of well-defined elements and will not vary from person to ferson.
(viii). Yes Because it is well defined and will always remain the same.	(vii).	His Bicause it is a sollection of well-defined eliment and will not vary from purson to purson.
The state of the s		No. Because it is not well-defined and the number of elements and the element iself may vary with pure

	The state of the s
Q.Z. (i)	5 EA (ii), 8 \(A \) (iii), 0 \(A \) (iv), 4 \(E A \)
	2 ∈ A (vi). 10 \ A
	The second secon
83. (i)	Soln. Set = $\{-2, -1, 0, 1, 2, 3, 4, 5, 6\}$
(ii).	Solm. set = {5,4,3,2,1}
	Solution set = {17,26,35,44,53,62,71}
(iv).	soln. set = $\{2, 3, 5\}$
(v).	Soln. set = {T, R, I, G, O, N, M, E, Y}
(vi).	Soln. set = $\{B, E, T, R\}$
-18.4.(¿).	A = { x: x = 3 n where n EN and 70 < 5 }
(ii).	$B = \{x : x = 2^n \text{ when } n \in \mathbb{N} \text{ and } n \in \mathbb{N} \}$
	$(= \{x: x=5^n \text{ where } n \in \mathbb{N} \text{ and } n < 5\}$
(žu-),	$D = \{x : x = 2n \text{ where } n \in N \}$
(v).	$F = \{ x : x = n^2 \text{ where } n \in \mathbb{N} \text{ and } x = 10 \}$
8.5. Ci).	soln. set = § 1, 3, 5, 7, 9, 11, }
Gi).	Soln. set = {0, 1, 2, 3, 4}
Ciii)	Solution 10 = 82, -1, 0, 2, 2}

	your writing partner	Page No.: 3
(iv).	soln. set = { 2,0, y, A & }	
(v).	soln. set = { February, April, June, septer	nber, rovember?
(vis.	soln. set = {B, C, D, F, G, H, I}	
0.6.li	$\{\xi_1, 2, 3, 6\} \Rightarrow \{\xi_{x}: x \text{ is a natural number}\}$	& divisor of 67
(ii).	{2,2} → {n: n is a prime number & die	rison of 6 f
Ciù.	EH, A, T, H, E, I, C, S] → Ex: x is a letter of t	the word MATHEMATICS?
(iv).	{1,3,5,7,9} ⇒ {x:x is an odd number.	less than 10 }.
		7 = N A
	·	•
006		
		→0.217(0.7772/0.521 521 11.3
		3

	your writing partner Date :	o.: 4
	Exercise 1.2	
		i i lu
1. (ii)	. Null set (iii) Not null (iii) Null set (iv.). Null set
.2. 2.61	Finite (ie) Infinite (iii) finite (iv) Infinite (W. Finite.
18.3 (i),	Infinite (ii) Finite (iii) Infinite (iv) Finite (V)	Infinite.
B.4. (i.).	$A=B$ (ii) $A \neq B$ (iii) $A=B$ (iv) $A\neq B$	
A.5 (1).	ACCOUNTING TO SOME AS	
	which are absent in A.	
(AL).	Solm. set of $A = \{ W, O, L, F \}$.	
	Solvest of $B = \{ \omega, 0, L, F \}$ BCA ALACB : A = B	
	BCH WWACB, AZB	
Q. 6).	BB=D, $F=G$	
100		
0000		
POCO X3	PRO VAIBHAV	/2021 5

	your writing partner Page No.: Date:
	Exercise 1.3
D.T.C.). {2,3,4} C {1,2,3,4,5} (ii). {a,b,c} + {b,c,d}
(iii). Ex: x is a student of class xi of your school ?
	C { x: x is a student of your school?
(in)	Ex:x is a circle in the plane? I
	Ex:x is a circle in the same plane with ocidus tund
(v).	Ex: x is a triangle in a plane & 4
	Exix is a rectangle in the plane!
(vi).	Ex: x is an equilateral triangle in a plane?
	C { x: x is a triangle in The same plane.
(vii).	§ x: x is an even natural number ? < Ex: x is an integers.
	7.790
Q.2. (i). False (ii) June (iii). False (iv). June (v) June (vi). False
-0.3.6	is. Incorrect.
	Because §§3,43} as a whole is an single element of the set A whoveas §3, 43 separately does not
	of the sex of converses () , supering the
11.	Slong to the set A.) coverect (iii) correct (ive) coverect
(i)	
(10-)	Recovered.
	Bucause E1 } as an element is a subset of A
(.6)	covert
()	In acquest.
(NG)	Bround 1. 2. 5 separately belongs to set A but
	Because 1, 2, 5 separately belongs to set A but. E I, 2, 5} as a whole does not belong To set A.
(9 m)	Incorrect.
Silv.	Because \$ 2 not an element of A.
(x).	correct.
	Incorrect.
	Because & is not an element of A.
OCO X3	PRO VAJBEAT

		Page No.:
	your writing partner	Date:
011 0	1 8.4.7. at 803 => 803 d.	-
18.45 · (A)). Subsits of Eas => Eas, 9.	
(iu).	subsit of Ea, 63 => Ea, 63, Ea3, Eb3, P	(2 13 81 2 28 1
(iii).	subsets of \$1,2,33 => \$13,523,533, \$1,23, \$2,33,	39139219h, 931, P.
(ille).	subjets of \$ \$ \$.	
Q.5).	7 Sin and the same of the same	
Y		
0.1.0	(2) (2) (2) (2)	[o, 7)
		10, 47
<i>Cu</i>	·). [3,4].	
	and and the second of the second	· · · · · · · · · · · · · · · · · · ·
. Q.7). (i). {x:xER; -3 <x<0}< th=""><th></th></x<0}<>	
(ii)	· { x: x & R, 6 < x < 12}	
- (iii)	{ x: x∈R, 6< x≤12}	ASSESSED ON THE
	§x; x∈R, -23≤ x < 5 }	
		and the state of
(e)	The set of triangles.	· · · · · · · · · · · · · · · · · · ·
_V&.C.)		***
	Car we with silve the sales of the	
<u>vo.9).</u>	(i) and (iii) would be considered as	a universal
-	set for all the 3 sets A, B, C.	
	7.	Sant is
	is such as a description of the second	Dan Carl
	in a subset of s	7 1
		101000
N. 4.		10 10 10 10 10 10 10 10 10 10 10 10 10 1
	A P TO BY THURSDAY OF A STORY	Marian il
3	The state of the s	
		Anny in Common
	and the state of t	
0000		0.00
		NEW TOTAL COLUMN R
P000 X3	PROT VAIBARY CAN	MANUEL VE LOS

Page No.:

EXERCISE -1.4

 $g.1).(2). \times UY = \{1, 2, 3, 5\}$

(ii). AUB = {a,b,c,e,i,0,u}

(iii). A = UB = § 1, 2, 4, 5 or a multiple of 3}

(iv). AUB = }}

(v) AUB = \$

Q2) Yes. ACB.

: ACB

.. AUB = B = {a, b, c}

0.3). . ACB.

. . AUR = B.

8.4). (i). AUB = £1,2,3,4,5,6}

(ii). AUC = £1,2,3,4,5,6,7,8}

(iii). BUC = 3 3,4,5,6,7,8}

(iv), BUD = \$3,4,5,6,7,8,9,105

(V). AUBUC = \$1,2,3,4,5,6,7,83

(vi) AUBUD = \$1,2,3,4,5,6,7,8,9,106

(vii). BUCUD = { 3,4,5,6,7,8,9,10}

0.5). ADB = £3,43 BAC = £5,63

A O C = 3 & B O D = 23

AND = {}

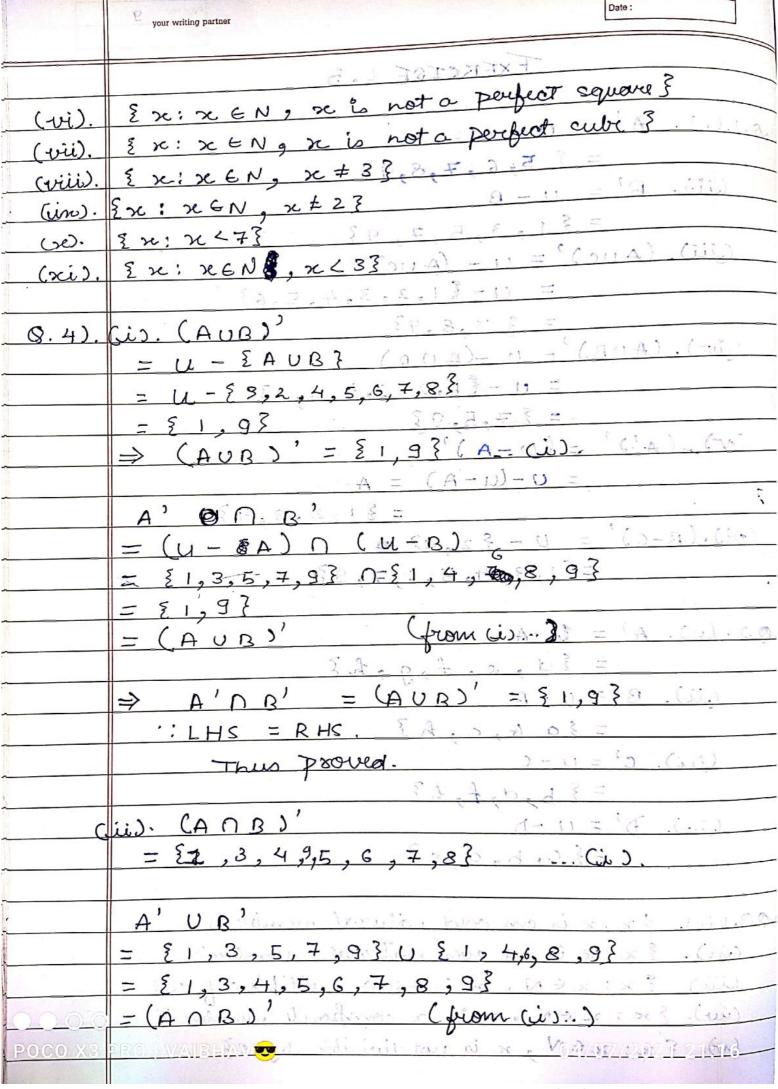
(vi). ANB = { 7,9,11} (vi). ANCRUC) = {7,9,11}

(ii). BMC = { 11, 13} (vii). AMD = 0

(viii). A \(\cappa \cappa \cap

(in). AONC = \$11} (inc). (ANB) A (BUC) = £11}

(V). BOD = 0 (x). (AUD) n (BUD) = 0.



	Page No.: Date:
	2 1 - 20 - 20 - 2 - 2
	$\Rightarrow (A \cap B)^2 = A^1 \cup B^1 = \S1, 3, 4, 5, 6, 7, 8, 9\S$
	=> (A110) = A UB = 21, 5, 7, 8, 7, 8, 93
	Thus proceed.
0.5). (i). /u///////////////////////////////////
	Mary Commence of the second of
	A B B
	11/ Total della
	(AUB)'
12	8 11) 4 - ((3) 0 + (H) 6) = (36 H) 6 (9.2)
	(iii). 10////////////////////////////////////
	A 3 ///
2	main Mallitation of the second
	A' OB' . Acidania
`	U
į į	(iii) (/////
1	
	X/X/AJ=
	TU2
	A'UB' & (ANB)
- 4-	now is the - court in the court of the court
Q.6)	The state of the s
9.00	(iii): $\phi' \cap A = A$
	(iii). A \cap A' = ϕ (v) $\alpha = 0.8$
	(iv). Un A = A later and V +2
(-	10 Mar - City of t Colar 1 = (TADel) a (0)
	$z = -(zz + \overline{z}z) = -$
000	
. PO(6(8)	ATRIA LAW MARGATA IN MARGATANIA
	Scanned with CamScanner

4	EXERCISE - 1.6		
Q.D.	n(xny) = (n(x) + n(y)) - n(xvy)		
	= (17+23)-30		
	. = 40-38 = 2		
Ĭ			
0.2).	n(xny) = (n(x) + n(y)) - n(xvy)		
<u></u>	= (8+15)-18		
	= 23-18 = 5		
	(80 A)		
	n(H 60E) = ((n(H) + n(E)) - n(H 64)		
Q. g)	n(H BBE) = ((n (H) + VI (E))		
	= (200 + 250) - 400		
1	= '450 - 400		
	= 50.		
	50 people could speak both Hindi &		
	English. 180 A		
0.4)	$n(SUT) = (n(S) \neq n(T)) - n(S \cap T)$		
	= (21 + 32) - 11		
	= 42		
	SUT House a total of 42 'clements.		
	(8 0 4) & \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
_ Ø.₽y	n(x ny) = (n(x) + n(y)) - n(x o vy)		
	10 = (40 + n (y)) - 60)		
	10 + 20 = n(y) A A A A A A A A A A A A A A A A A A A		
	30 = n (V) D = 'A O A (W)		
	Set y have a total of 30 relements.		
	8		
ر (۵، م	$n(\mathbf{b}(C \cap T) = (n(C) + n(T)) - n(CUT)$		
	= (37+52) - 70		
	= 89-70 =19		
	19 people like both tea & coffee.		
	3 PRO I VAIBLA . 04/07/2021 21:16		

	your writing partner Page No.: Date:
Q.7.	$\frac{1.10}{n(CnT)} = \frac{10}{n(CnT)} = \frac{10}{n(Cn$
ල . ව	n(FNS) = (n(F) + n(S)) - n(FUS) $10 = (50 + 20) - n(FUS)$ $n(FUS) = 70 - 10$ $= 60$
	in the two languages = 60.
	(D) (C) X3 PRO VAIBHAV (C) -04/07/202121316