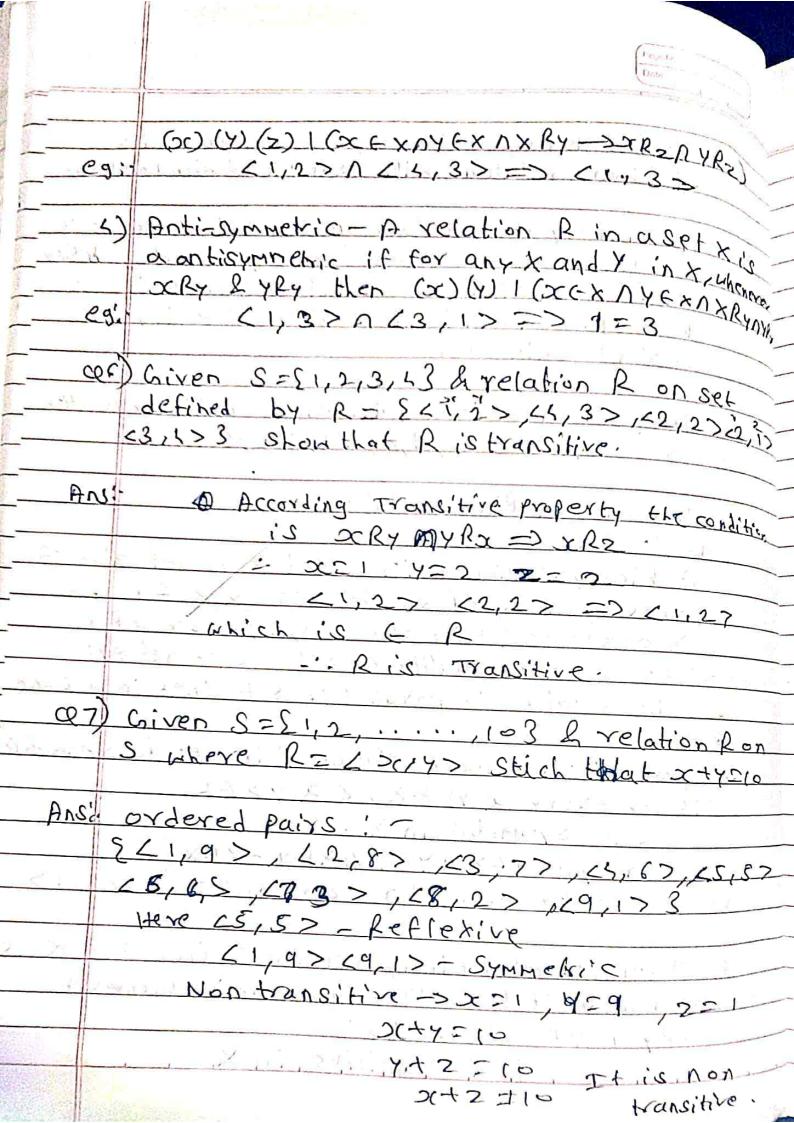


	3) What are ordered pairs give examples
A	os: DAn ordered pair ka, b> is a pair of objects appear in the pair
All controls	is significant. 3) The ordered pair carbo is different from 110 ordered pair Chao unless at b
	Jan 1 Dair Concict of Jobsteb in given
	pair note that order set is not set of consisting two elements
	AXB = SLX, Y > IXEA NYEB3
93.2	L1,3> L2,1> L1,2> L2,1>
<u>(\$</u>	ordered triple is ordered pair who's first
	member is itself considered to be order pair.
	L(X(Y), Z) > 1822/4> CA, ZEB3
m i	V. () at a case 1 acid so 1 acid so 1 acid
95	Notation for cartesian product of A and B. Give
ė.	() 0 9 - () 2 9 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Ans:	A cartesian product is a set of all ordered 2-but
yj e	where each "part" is from is given Set.
	It is Denoted by AXR
eq.	2-D Carlesian roordinates were set at all ordered
	rains ZX Z
	Recall z is set of all integers
Eg	Given Azsarb3 and R=Co.12
6. 0	CI AXB.
	= 5(a,0), (a,1), (b,0), (b,1) 3
	AXB = S(a,b) latA and beB]



Define Binary relation, explain properties of binary relation with example & with notation. Ans. A binary relation between two sets A and B is a rule R which decides, for any elements, whether, a is in relation R to bit So , we write a R b. It a is not in relation R to b, then we shall write a/Rb. Any set of ordered pairs defines a binary relation. S={(1,2),(3,9),(b,q),(b,Joe)3 * Properties of Binary Relations 1) Reflexive A binary relation RiD a set X is reflexive if, for every XEX, XRX, That is (X,X) ER ox XO(X)(XCX (DXRX). ZI,17. OY XRX egi OThe relation equality of set is also reflexive (2) The relation is parallel in set lines in a plane 2) Symmetric: A binary relation Rin Set is symmetric it for every (x, y) Ex, Lx, y> ER R is symmetric in X (x)(y) XEXMYEXMXRY-YRX) XRY then YRX ONZI, 3> ovc3,1> 3) Transitive: A binary relation R in a set X is transitive it for every xly in X, whenever XRY NYRZ then XRZ R is transitive in X





	One One
	'. Satisfies three properties.
08)	What is equivalence Relation.
Ans:	relation it
_	ala for every ie lis reflexive
_	akb => b Ra for every a, b c A ie R is summehic.
	CLED and PBRC => arec for every arb, CEA
	ie Ris transitive.
Eq	The relation equality of numbers on Set of
- V	real numbers.
	It satisfies three properties; petiexive, Transitive
11	and symmetric.
	$x = \{1, 2, 3, 43$
	R= E <1,1> <1,6> <4,1> <4,6> <2,2> <2,37
	43,27 43,373
.07	1234 182 260
	1 1001
Marco a	20110
	3 0 1 1 0
	. It is an equivalence Relation.
X	All 22
	1/3/
) Tien	
OF FEMALES	Section 1