Se E

a) extension form b) Comprehension form

a) extension form (Roster notation)

B) Comprehension form (Set builder notation)

Venn d'agram.

Remarki

E: belong.

divisors multiples € : doesnot belong.

C: Subsef.

C: does not subsef.

Ø: phi => empty set

n: Potersection

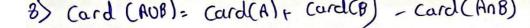
U: unfor.

Finite and infinite: sets: B= { 1, 3, 5, 7, 9} C: [x /x is an odd number]

Unfinite set. Finaleset Card (B) = 5 Cardina number of elements Remarks D'Equal Sets: having same elements. 3) singleton: contains only one element, 3) Pair: contains two elements. D IF A CB and Bec ⇒ ACC DACB and BCA of and only of A=B.) A CA & CA For any set A. Complement of a set: et Ps denoted by A of CL A= CF= fa/x e E and a EAZ Operations with sets: 1) Intersections ANB = { x/EX EA and X EB}

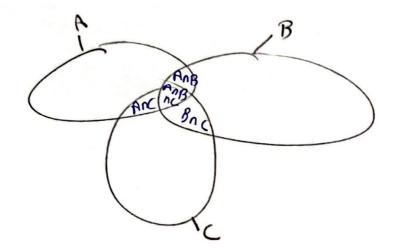
Remarks:

$$9$$
 AUB = BUA
 3 AUØ = A



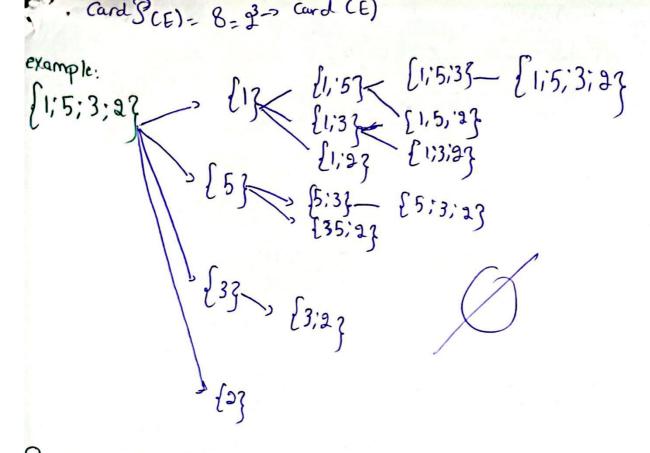






The Set of Subsets:

DQCE



D Natural and whole numbers:

1) Integers,

3) Decemal number

$$D = \{ x / x = \frac{\alpha}{100} : \text{where } \alpha \in \mathbb{Z} \text{ and } \alpha \in \mathbb{Z} \}$$

$$N \subset \mathbb{Z} \subset \mathbb{D}$$

4) Rational numbers.

5) Irrattonal numbers: It can't be expressed as a π_{i} $\sqrt{2}$; $\sqrt{5}$; $\pi_{-\frac{7}{3}}$; $\sqrt{2}$ - $\sqrt{5}$... 6) Real number. All numbers. NCZCDCQCR Remark) DX; Zx; Dx; Qx and Rx N; Z; D; Q and R without Zero. 2) 2+, D+; Q+ and R+ Up Z; D; Q and IR only tre. 1) Z-; D-; Q- and R-UZ; D; Q and TR only -ve