Power point presentation

SETS

et

- vell defined collection of objects or ideas known as a set.
- was developed by Georg Cantor (1845-18)
- 1,3,5,7,9....



Vell Defined Set

- All the objects in the set ould have a common eature or property
- It should be possible to ecide whether any given oject belongs to the set or ot.
- k: a, e, i, o, u



ming of Sets

- e usually denote a set by upper letters A, B, C, X, Y, Z c.
- nples :
- e set of all Natural numbers is denoted by N.
- e set of all Integers is denoted by Z.
- e set of all Rational numbers is denoted by Q.
- e set of all Real numbers is denoted by R.

ypes of sets

- here are Three types of ets. They are
- Null Set
- Finite Set
- Infinite Set



<u>Iull Set</u>

- A set which does not contain any element is called an empty set or a Null set or Void set.
- Empty set is denoted by the symbol $\{ \}$ or Φ

inite Set

- is possible to count the number of ements of sets A and L or that they contain finite number of elements. Such sets are alled finite sets.
- A = { the students of your school }
- L = {p, q, r, s }

nfinite Set

- It is not possible to find that the number of elements in B and J is infinite. Such sets are called infinite sets.
 - B = { x:x is an even number }
 - J = { x:x is a multiple of 7 }

Representation of types of

<u>sets</u>



uestions

- What is a set?
- Give an examples of finite set?
- What is infinite set?
- Explain null set?
- Give an examples of well defined set?