



## Work Sheet-1

### Class-XI

### Subject: Mathematics

### Topic: Set Theory

Q.1 Write the set builder form  $A = \{1, -1\}$

CET 2015

- A)  $A = \{x: x \text{ is a real number}\}$
- B)  $A = \{x: x \text{ is an integer}\}$
- C)  $A = \{x: x \text{ is a root of equation } x^2 = 1\}$
- D)  $A = \{x: x \text{ is a root of equation } x^2 + 1 = 0\}$

Q.2 If A and B are finite sets and ,  $A \subset B$  then

CET-2017

- A)  $n(A \cup B) = n(A)$
- B)  $n(A \cap B) = n(B)$
- C)  $n(A \cup B) = n(B)$
- D)  $n(A \cap B) = \phi$

Q.3 In a class of 60 students, 25 students play cricket and 20 students play tennis, and 10 students play both the games, then the number of students who play neither is

CET-2014

- A) 0
- B) 35
- C) 45
- D) 25

Q.4 If U is the universal set with 100 element; A and B are two set such that  $n(A) = 50$ ,  $n(B) = 60$ ,  $n(A \cap B) = 20$  then  $n(A' \cap B') =$

- A) 90
- B) 40
- C) 10
- D) 20

CET -2019

Q.1

Q.3

Q.2

Q.4