## Chapter 1. Sets

1) **Empty set is a**

A) Infinite
B) Finite
C) Invalid
D) None of these

Answer: B

2) **How many rational and irrational numbers are possible between 0 and 1**

A) finite
B) infinite
C) 0
D) 1

Answer: B

3) **A ⊂ B is read as**

A) A is less than B
B) A is a proper subset of A
C) B is a proper subset of A
D) None of these

Answer: B

4) **Every set is a of itself.**

A) improper subset
B) proper subset
C) compliment
D) none

Answer: A

5) **A set has n elements, then the, number of elements in its power set is**

A) $2^n$
B) $2^{n-1}$
C) $2^{n+1}$
D) None of these

Answer: A

6) **The union of sets A and B is expressed as**

A) AUB
B) AxB
C) A/B
D) None of these

Answer: A

7) **The intersection of sets A and B is expressed as**

A) AUB
B) A∩B
C) A/B
D) None of these

Answer: B

8) **A—B is read as**

A) Difference of A and B of B and A
B) Difference of A and B
C) Neither A nor B
D) Both A and B

Answer: A

9) **A — B will contain elements in**

A) A not in B
B) B not in A
C) Neither A nor B
D) Both A and B

Answer: A

10) **A' will contain how many elements from the original set A**

A) infinite
B) 0
C) 1
D) All elements of A

Answer: B

11) **(A')' =**

A) A'
B) U – A
C) A
D) U

Answer: C

12) **If A is not equal to B, then the Cartesian product**

A) A x B= B x A
B) A x B≠ B x A
C) Is not possible
D) None of these

Answer: B

13) **If A has m elements and B has n elements, then A x B has elements**

A) m+n
B) m-n
C) m x n
D) 2n

Answer: C

14) **In lst quadrant**

A) X > 0, Y < 0
B) X < 0, Y > 0
C) X < 0, Y < 0
D) X > 0, Y > 0

Answer: D

15) **If R = {(1,1),(2,3),(4,5)}, then domain of the function is**

A) Dom R = {I,2,4}
B) Dom R {1,3,5}

C) Dom R {1,1,4,5}
D) Dom R = {2,3,4,5}

Answer: A