

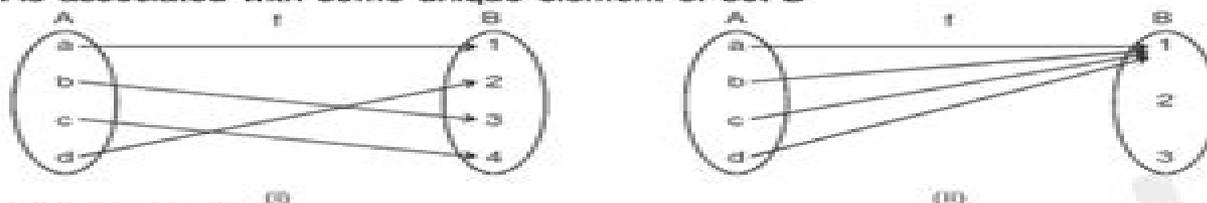
## Unit-1

# Basic Mathematical Concepts

## 1. FUNCTION

### Definition

If A and B two non-empty sets then a relation defined from A to B is said to be a function if every element of A is associated with some unique element of set B



### Domain, Co-domain & Range

If  $y = f(x)$  is a function such that  $f$  is defined from  $A \rightarrow B$  then

#### (1) Domain

Set A is called domain of  $f(x)$  and it is the set from which the independent variable 'x' takes its values. The independent variables 'x' must be able to take each and every element of set A.

#### (2) Co-domain

Set B is called co-domain of  $f(x)$  and it is the set from which the dependent variable y takes its values the dependent variables 'y' cannot take its values outside the co-domain.

#### (3) Range

The set of values that 'y' actually takes for different values of 'x' is called range of  $f(x)$

→ Range is a subset of B

Range  $\subseteq$  co-domain

### Some Important Definition

#### (i) One-One Mapping

A function  $f : X \rightarrow Y$  is defined to be one-one (or injective). If the images of distinct elements of X under f are distinct, i.e., for every  $x_1, x_2 \in X$

$$F(x_1) = F(x_2)$$

$$\Rightarrow x_1 = x_2$$

#### (ii) Many-One Mapping

A function  $f : A \rightarrow B$  is said to be many-one iff two or more different elements in A have same f - image in B.

#### (iii) Onto Mapping

A function  $f : X \rightarrow Y$  is said to be onto (or surjective), if every element of Y is the image of some element of X under f i.e. for every  $y \in Y$ , there exists an element x in X such that  $f(x) = y$ .

#### (iv) Into Mapping

The mapping f is said to be into iff there is at least one element in B which is not the f-image of any element in A in this case  $f(A) \subset B$ . i.e. range of A is proper subset of B.

#### (v) Equal Function

Two function f and g are said to be equal, iff

(i) domain of f = domain of g

# Basic Mathematics Concepts

**Allen I. Talikan**



## **Basic Mathematics Concepts:**

**MATH ESSENTIALS** Allen I. Talikan,2021-08-19 The idea for writing this book came from the author s realization that there is a need to compile some basic concepts in Mathematics These basic concepts are prerequisites in learning advanced and higher Mathematics The mathematical concepts were taken and borrowed from notable Mathematics books authored by local and foreign authors In addition the topics in this printed material are explained in simple and precise manner Every term is given a definition and a set of examples There are also exercises provided for each topic to assess the learning of the students This book may not be the best book available out there but this will somehow give every student and professional the foundation of basic Mathematics It is the wish of the author that readers will have meaningful learning while reading this book     Discovering Basic Math Concepts Allan J. Suter,1990     *Basic Mathematical Concepts* Frank Lynwood Wren,1965

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