

# PERMUTATIONS & COMBINATIONS

First let us see the definitions that we need to solve the questions.

**Factorial:** Factorial of any non-negative integer 'n' (denoted by n!) is equal to product of all the integers from 1 to n.

$$\therefore n! = 1 \times 2 \times 3 \times \dots \times n$$

Try to memorize the factorial values of first 8 numbers.

$$1! = 1, \quad 2! = 2, \quad 3! = 6, \quad 4! = 24, \quad 5! = 120, \quad 6! = 720, \quad 7! = 5040, \quad 8! = 40320$$

**Counting principle:** If an operation can be performed in m-ways and a second operation can be performed in n-ways corresponding to each performance of the first operation, then the two operations in successions can be performed in mn ( $m \times n$ ) ways.

**Permutations:** An arrangement that can be formed by taking some or all the finite set of objects is called a permutation.

If the objects are arranged in a line then it is called a linear permutation and if the objects are arranged in the form of a circle then it is called a circular permutation.

The number of permutations that can be made by taking any r-objects at a time from a set of n-dissimilar objects ( $r \leq n$ ) is denoted by  ${}^n P_r$  or  $n (P, r)$ .

$${}^n P_r = \frac{n!}{(n-r)!} = n (n-1) (n-2) \dots (n-r+1)$$

The number of permutations that can be made by taking all the given 'n' dissimilar objects is equal to n!.

**Formulae:**

1) The number of ways that 'n' distinct letters of a word can be arranged is equal to n!.

# Permutations 7 Practice C Answers

**Hussin A.Rothana**



**Permutations 7 Practice C Answers:**

The book delves into Permutations 7 Practice C Answers. Permutations 7 Practice C Answers is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Permutations 7 Practice C Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Permutations 7 Practice C Answers
    - Chapter 2: Essential Elements of Permutations 7 Practice C Answers
    - Chapter 3: Permutations 7 Practice C Answers in Everyday Life
    - Chapter 4: Permutations 7 Practice C Answers in Specific Contexts
    - Chapter 5: Conclusion
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