### Chapter 7

# PERMUTATION, COMBINATION AND PROBABILITY

#### FACTORIAL NOTATION

Let n be a positive integer. Then the product n(n-1)(n-2)......3.2.1 is denoted by n! or  $\square$  and read as n factorial.

i.e. 
$$n! = n(n-1)(n-2)......3.2.1$$
  
and  $n! = n(n-1)!$  where  $0! = 1$ 

#### EXERCISE 7.1

#### Q.1 Evaluate each of the following:

(i) 4! (ii) 6! (iii) 
$$\frac{8!}{7!}$$
 (iv)  $\frac{10!}{7!}$  (v)  $\frac{11!}{4! \, 7!}$  (vi)  $\frac{6!}{3! \, 3!}$  (vii)  $\frac{8!}{4! \, 2!}$  (viii)  $\frac{11!}{2! \, 4! \, 5!}$  (ix)  $\frac{9!}{2! \, (9-2)!}$  (x)  $\frac{15!}{15! \, (15-15)!}$  (xi)  $\frac{3!}{0!}$  (xii) 4! 0! 1!

#### Solution:

(iii) 
$$\frac{8!}{7!} = \frac{8.7.6.5.4.3.2.1}{7.6.5.4.3.2.1} = 8$$

(iv) 
$$\frac{10!}{7!} = \frac{10.9.8.7.6.5.4.3.2.1}{7.6.5.4.3.2.1} = 720$$

(v) 
$$\frac{11!}{4! \ 7!} = \frac{11.10.9.8.7.6.5.4.3.2.1}{4.3.2.1 \ 7.6.5.4.3.2.1} = 330$$

(vi) 
$$\frac{6!}{3! \ 3!} = \frac{6.5.4.3.2.1}{3.2.1.3.2.1} = 20$$

## **Answers 35 Permutations Coblinations Nad Probability**

**William Allen Whitworth** 

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