

Name : \_\_\_\_\_

## Factorials - MCQ

Sheet 2

1) What is the HCF of  $10!$ ,  $7!$  and  $9!$ ?

- a)  $7!$                       b)  $10!$                       c)  $9!$                       d)  $1!$

2) What is the value of  $3! 5!$ ?

- a) 740                      b)  $15!$                       c) 720                      d)  $8!$

3)  $\frac{(n+1)!}{n!} = 4! + 2!$ , find  $n$

- a) 26                      d) 1

4)  $8! = ?$

- a) 8                      d)  $7! + 1!$

5) Which of the following is true?

- a)  $\frac{6!}{6} = 5(4!)$                       d)  $6(6!) = 5!$

6) Which of the following is true?

- a)  $9n!$                       b)  $9n^2$                       c)  $(9n - 1)!$                       d)  $9n$

7) Which of the following is equivalent to  $(2!)^3$ ?

- a)  $3! 2!$                       b)  $3! + 2!$                       c)  $8!$                       d)  $3(2!)$

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