MATHEMATICS IN EVERYDAY LIFE–7

CORDOVA™

ASSESSMENT
Max.Marks : 20

Chapter 9 : Ratio and Proportion

A : Choose the correct alternatives in each of the following : (1 × 5 = 5)

1. If $x : 8 :: 5 : 4$, then the value of x is
   (a) 10   (b) 12   (c) 20   (d) 24

2. The least number that should be added to each term of the ratio 7 : 13 to make it 2 : 3 is
   (a) 1   (b) 2   (c) 3   (d) 5

3. If $\dfrac{A}{3} = \dfrac{B}{4} = \dfrac{C}{5}$, then $A : B : C =$
   (a) 4 : 3 : 5   (b) 3 : 4 : 5   (c) 5 : 4 : 3   (d) 20 : 15 : 12

4. If 21 cows eat as much as 15 buffaloes, how many cows will eat as many as 35 buffaloes?
   (a) 45   (b) 49   (c) 50   (d) 56

5. $15 : x :: 10x : 96$, then the value of x is
   (a) 10   (b) 12   (c) 20   (d) 64

B : Solve the following : (3 × 5 = 15)

1. It takes a gardener 45 minutes to digs a flower bed of area 7.5 m^2. If he digs at the same rate, how long does he take to dig flower bed of area 9 m^2?

2. Two numbers are in the ratio 2 : 7. If their sum is 54, find the numbers.

3. A book "Mathematics in Everyday Life" has 400 pages. 120 words are printed on a page. How many pages will be required to print the same book with 150 words on a page?

4. In 3 hours, a train covers 183 km. Travelling at the same speed what distance would the train cover in $2\dfrac{1}{2}$ hrs?

5. If 18 boys consume 6 kg of rice in a day, how much rice will be consumed by 54 boys in a day?