

Mixtures And Alligations Questions Overview

Mixtures And Alligations Questions have a good weightage in the Banking Exam and the type of question asked in Banking exam is similar to the question mentioned below. It has been solved and explained by Gargi.ai Experts and they have tried to elaborate the concept used in Mixtures And Alligations Questions.

Question

If time taken to cover 'D - 11' km upstream is four times the time taken to cover D km downstream. If ratio of speed of boat in still water to the speed of water current is 9 : 7. And the time taken to cover 'D - 2' km in upstream is 2 hrs. what will be the speed of boat in still water?

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. 30 kmph
2. 20 kmph
3. 45 kmph
4. 35 kmph
5. None of these

Solution

The correct answer is **option 3** i.e. **45 Kmph**

$$\text{ATQ, } \left(\frac{11}{2}\right) = \left(\frac{4}{16}\right)$$

$$\text{or, } D = 22 \text{ km}$$

$$\text{also, } \left(\frac{2}{2}\right) = 2x$$

$$\text{or, } D - 2 = 4x$$

$$\text{or, } x = 5$$

$$\text{Speed of boat} = 9x = 45 \text{ kmph}$$