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

A and B are the two containers of a mixture of milk & water. The ratio of milk and water in containers A and B are 7 : 2 and 7 : 11 respectively. If equal quantities of these two mixtures are mixed to form a new mixture, find the ratio of milk and water in the new mixture.

Difficulty : Moderate

Average Time : 40 Seconds

Options :

1. 5 : 7

2. 7 : 5

3. 6 : 7

4. 8 : 3

5. 7 : 6

Solution

The correct answer is **option 2** i.e. **7 : 5**.

Milk : Water (in mix 1) = 7 : 2

Milk : Water (in mix 2)= 7 : 11

The volume of these two mixtures are equal

Let the volume of the mixture (1) = 9x

Amount of milk = 7x/9

Amount of water = 2x/9

Let the volume of the mixture (2) = 18x

Amount of milk = 7x/18

Amount of water = 11x/18

The ratio of milk and water in the new mixture

$$= \frac{\frac{7x}{9} + \frac{7x}{18}}{\frac{2x}{9} + \frac{11x}{18}} = \frac{21}{15} = \frac{7}{5}$$