

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 shopkeeper mixed low-quality vegetable oil costing Rs. 40 per litre with sunflower refined oil costing Rs. 80 per litre in the ratio of 2 : 3 respectively. If he sold the mixture at Rs. 100 per litre, find his profit percentage.

Difficulty : Moderate

Average Time : 35 Seconds

Options :

1. 40 %
2. 48.58%
3. 56.25%
4. 51.5%

Solution

The correct answer is option 3 i.e. 56.25%

Let the total quantity of the mixture be 10 ltr.

10 litres of the mixture contains,

$$(2/5) \times 10 = 4 \text{ litres of low-quality vegetable oil}$$

$$(3/5) \times 10 = 6 \text{ litres of sunflower refined oil}$$

The cost price of 10 litres mixture = $4 \times 40 + 6 \times 80 = 160 + 480 = \text{Rs. } 640$

The cost price of 1 litre mixture = $640/10 = \text{Rs. } 64$

Profit earned = $100 - 64 = \text{Rs. } 36$

Profit percentage = $(36/64) \times 100 = 56.25\%$