

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

Type A rice costs Rs.40/kg and type B rice costs Rs.56/kg. 24 kg of type A rice is mixed with 56 kg of type B rice to form a mixture. If the mixture is sold at Rs.58.88/kg, then at what profit percent the mixture is sold?

Difficulty : Moderate

Average Time : 38 Seconds

Options :

1. 12%
2. 10%
3. 15%
4. 20%
5. 18%

Solution

The correct answer is **option 3** i.e. **15%**

Let cost price of mixture = X

By the rule of alligation:

$$[56 - X] : [X - 40] = 24 : 56 = 3 : 7$$

$$392 - 7X = 3X - 120$$

$$10X = 512$$

$$X = 51.2$$

Cost price of mixture = Rs.51.2

Selling price of mixture = Rs.58.88

Profit amount = $58.88 - 51.2 = \text{Rs.}7.68$

Required profit percent = $(7.68/51.2) \times 100$

= 15%

