

Comparison Of Quantities Questions Overview

Comparison Of Quantities 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 Comparison Of Quantities Questions.

Comparison Of Quantities Questions

Direction: In each of these questions, two quantities (I) and (II) are given. You have to solve both quantities and mark the appropriate answer.

Question

Quantity I: Find the distance if A man covers a distance in 15 hours. He covers the first half at 12 kmph and the second half at 15 kmph. Quantity II: Find the distance if Two buses move towards each other at a speed of 30 kmph and 40 kmph respectively. When they meet it is found that the faster bus covers 30 km more than the slower one.

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Quantity I > Quantity II
2. Quantity I = Quantity II
3. Quantity II > Quantity I
4. Quantity II = Quantity I
5. Quantity I = Quantity II or Relation cannot be established

Solution

The correct answer is **option 3** i.e. **Quantity II > Quantity I**

Quantity I:

Average Speed = $(2 \times 12 \times 15)/(12 + 15) = 40/3$ kmph

$D = S \times T = 40/3 \times 15 = 200$ km

Quantity II:

Speed difference for 1 hour = $40 - 30 = 10$ Kmph means in 1 hour faster bus will cover 10 km more than slower bus

Hence to cover 30 km more it will take 3 hours.

Distance = Relative Speed \times Time

$$D = 3 \times (30 + 40)$$

$$D = 210 \text{ km}$$

