

Time Speed And Distance Questions Overview

Time Speed And Distance 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 Time Speed And Distance Questions.

Question

A pipe can fill a cistern in 6 hrs. Due to a leak in its bottom, it is filled in 7 hrs. When the cistern is full, in how much time will it be emptied by the leak?

Difficulty : Moderate

Average Time : 36 Seconds

Options :

1. 42 hrs
2. 40 hrs
3. 43 hrs
4. 45 hrs
5. None of these

Solution

The correct answer is **option 1** i.e. **42 hrs.**

In one hour, $\frac{1}{6}$ of the cistern can be filled

In one hour, only $\frac{1}{7}$ of the cistern can be filled due to leak in its bottom

In one hour $\left(\frac{1}{6} - \frac{1}{7} = \frac{1}{42}\right)$ of the cistern is empty

The whole cistern will be emptied in 42 hrs