Pipes And Cistern Questions Overview

Pipes And Cistern 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 Pipes And Cistern Questions.

Question

An electric pump can fill a tank in 4 hours. Because of a leak in the tank, it took 5 hours to fill the tank. If the tank is full, how much time will the leak take to empty the tank?

Difficulty : Moderate

Average Time : 36 Seconds

Options :

1. 15 hours

2. 18 hours

3. 12 hours

4. 25 hours

5. 20 hours

Solution

The correct answer is **Option 5** i.e. **20 hours**

Concept	Application
If a pipe can fill a tank in p hours, then: part filled in 1hour = (1/p)	work done by the leak in 1 hour = (1/4) - (1/5) = (1/20) Therefore, the leak will empty the tank in 20 hours.