

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

Two inlet pipes A and B can fill a cistern in 36 minutes and 60 minutes respectively. In how much time both the pipes can fill $\frac{1}{6}$ th of the cistern together?

Difficulty : Moderate

Average Time : 33 Seconds

Options :

1. $15/4$ minutes
2. 3.5 minutes
3. $13/4$ minutes
4. 3 minutes
5. 4 minutes



Solution

The correct answer is **Option 1** i.e. $15/4$ minutes.

Suppose total capacity of cistern = 180 units (LCM of 36 & 60)

So,

Efficiency of pipe A = $180/36 = 5$

Efficiency of pipe B = $180/60 = 3$

Hence,

Time in which A and B together can fill $\frac{1}{6}$ th of cistern = $180/6 = 30$ units

$30/(5 + 3) = 15/4$ minutes