

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 pipes A and B can fill a tank in 10 minutes and 15 minutes respectively. Both the pipes are opened together but after 5 minutes, pipe A is turned off. What is the total time required to fill the tank?

Difficulty : Moderate Average Time : 35 Seconds

Options:

- 1. 6min
- 2. 7min 30sec
- 3. 7min
- 4. 6min 30sec
- 5. none of the above

Solution

The correct answer is Option 2 i.e. 7min 30sec

Concept	Application	



a tank in p hours, then: part filled in 1hour = (1/p)





Part filled in 5	minutes = $(1/3)$	10 + 1/15) :	× 5

$$= (5/30) \times 5 = (5/6)$$

Remaining part = 1/6
If a pipe can fill

Part filled by B in 1 minute = 1/15

(1/6) part will be filled in (15/6) = 2min 30sec

Therefore total time = 5min + 2min 30sec

= 7min 30sec

