

Quadratic Equation Questions Overview

Quadratic Equation 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 Quadratic Equation Questions.

Question

There are 6 books on Physics, 3 on Chemistry and 4 on Biology. In how many ways can these be placed on a shelf if the books on the same subject are to be together?

Difficulty : Moderate

Average Time : 33 Seconds

Options :

1. 833060
2. 733080
3. 622080
4. 966050
5. 422030



Solution

The correct answer is **option 3** i.e. **622080**

| | | |
|---------------|-------------|------------------|
| Understanding | Application | Fair Calculation |
|---------------|-------------|------------------|

| | | |
|--|-------------------------|---|
| <p>All the 6 books on Physics can be mutually arranged in $6!$ ways.</p> <p>Similarly 3 books on Chemistry and 4 books on Biology can be arranged in $3!$ and $4!$ ways respectively.</p> | | |
| <p>Besides it the three sets of Physics, Chemistry and Biology also can be arranged in $3!$ ways</p> | Required number of ways | $3! \times 6! \times 3! \times 4! = 622080$ |

