

Comparison Of Quantities Questions Overview

Comparison Of Quantities 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 Comparison Of Quantities Questions.

Comparison Of Quantities Questions

Direction: In each of these questions, two quantities (I) and (II) are given. You have to solve both quantities and mark the appropriate answer.

Question

Quantity I: The numbers 2272 and 875 are divided by a three-digit number N, giving the same remainder. Find the sum of the digits of N. Quantity II: If 17200 is divided by 18, find the remainder.

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. Quantity I > Quantity II
2. Quantity I Quantity II
3. Quantity II > Quantity I
4. Quantity II Quantity I
5. Quantity I = Quantity II or Relation cannot be established

Solution

The correct answer is **option 1** i.e. **Quantity I > Quantity II**

Quantity I: Clearly, $(2272 - 875) = 1397$, is exactly divisible by N.

Now, $1397 = 11 \times 127$

so, the required 3-digit number is 127, the sum of whose digits is 10.

Quantity II: when n is even, $(x^n - a^n)$ is divisible by $(x + a)$.

So, $(17^{200} - 1)$ is divisible by $(17 + 1)$

$(17^{200} - 1)$ is divisible by 18.

$17^{200} \equiv 1 \pmod{18}$

