Number Series Questions Overview

Number Series 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 Number Series Questions.

Number Series Questions

Direction: Given below are three series I, II, and III. Each of the series has a wrong number. Assuming A, M, and P as the wrong numbers and B, N, and Q as the correct numbers which should replace them in the series I, II, and III respectively, answer the questions that follow. Series I: 14, 39, 183, 325, 471 Series II: 5, 10, 30, 130, 600 Series III: 60, 70, 50, 80, 30

Question

If all the correct numbers get halved of their initial values then, their sum is added to m now, this value is equal to the sum of wrong numbers. Find the value of m.

Difficulty : Moderate   **Average Time : 53 Seconds**

Options :

1. 242.5

2. 245.5

3. 220.5

4. 240.5

5. 241.5

Solution

The correct answer is **Option 5** i.e. **241.5.**

Series I: 14, 39, 183, 325, 471

$14 + (1 + 4)^2 = 14 + 25 = 39$

$39 + (3 + 9)^2 = 39 + 144 = 183$

$183 + (1 + 8 + 3)^2 = 183 + 144 = 327 \text{ (not 325)}$

$327 + (3 + 2 + 7)^2 = 327 + 144 = 471$

Hence, the values of A and B are 325 and 327 respectively

Series II: 5, 10, 30, 130, 600

$5 + 5 \times 1 = 5 + 5 = 10$

$10 + 10 \times 2 = 10 + 20 = 30$

$30 + 30 \times 3 = 30 + 90 = 120$ (not 130)

$120 + 120 \times 4 = 120 + 480 = 600$

Hence, the values of M and N are 130 and 120 respectively

Series III: 60, 70, 50, 80, 30

$60 + 10 = 70$

$70 - 20 = 50$

$50 + 30 = 80$

$80 - 40 = 40$ (not 30)

Hence, the values of P and Q are 30 and 40

Now, according to the question:

All correct numbers get halved(B, N, and Q)

$B/2$, $N/2$, and $Q/2 = 327/2$, $120/2$, and $40/2 = 163.5$, 60, and, 20

Now, the sum of half of all correct numbers is added to m= $(163.5 + 60 + 20) + m$

and this value is equal to the sum of all wrong numbers

Hence,

$(163.5 + 60 + 20) + m = (325 + 130 + 30)$

$243.5 + m = 485$

$m = 241.5$