



## Series Questions Overview

Series Questions have a good weightage in the Ssc Cgl Exam and the type of question asked in Ssc Cgl exam is similar to the question mentioned below. It has been solved and explained by KD Live Experts under the guidance of Neetu Mam and they have tried to elaborate the concept used in Series Questions.

## Question On Series

The fifth and tenth terms of an A.P. are 75 and 40 respectively. Then what is the value of the first negative term of the A.P.?

Difficulty : Moderate

Average Time : 33 Seconds

## Series Questions Options

1. -1
2. -2
3. -3
4. -4

## Series Questions Solution

The correct answer is **option 2** i.e. -2

Let the first term and common difference of the A.P. be  $a$  and  $d$  respectively

$$\text{Fifth term} = a + 4d = 75 \quad [ \text{ } n^{\text{th}} \text{ term} = a + (n - 1)d ]$$

$$\text{Tenth term} = a + 9d = 40$$

Subtracting both the equation

$$5d = -35$$

$$d = -7$$

Substituting in equation 1

$$a - 28 = 75$$

$$a = 103$$

Let the  $k^{\text{th}}$  term be the first negative term

$$a + (k - 1) d < 0$$

$$103 - 7k + 7 < 0$$

$$120 - 7k < 0$$

$$7k > 120$$

$$k > 120/7 \quad 15.7$$

Minimum value of  $k = 16$

$$15^{\text{th}} \text{ term} = 103 + (16 - 1) \times (-7)$$

$$103 - 105 = -2$$

## Series Questions Tips and Tricks



1. Try to solve Series Questions without taking any help from the solutions.
2. Series Questions require proper usage of concept so firstly read the question thoroughly and then use the right concept.
3. In case you're not able to solve the question in less than 30 seconds in the exam then you should skip the question

and move to the next question.

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## About Neetu Mam

Neetu Mam is primarily passionate for the English language and teaching from the last 20 years however for the Series



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