The candidates who like to achieve their dream of higher education or desire to secure a high-profile job, qualifying for competitive exams has now become necessary for everything. Along with the English and Logical Analysis section, the Numerical Analysis section is also a part of different competitive exams like TNUSRB, TNPSC, etc. The Numerical Analysis section contains a variety of questions that are based on mathematical concepts, thus, students often find it hard to solve such questions. If you are preparing for Numerical Analysis, go through this article from the **ENTRI** which aims to help you understand these concepts better.

Numerical Analysis Notes for TNUSRB SI Exam 2022

When you are familiarized with the concepts of numerical analysis, you will be able to easily solve any question. The numerical analysis questions do not apply complex calculations rather the questions tend to play with your mind with the tricky concept and language. You can practice the questions more comfortably by using simple mathematical operations, arithmetic operations, etc.

Numerical Analysis tests the ability to solve basic arithmetic problems encountered in everyday life. These problems of Numerical Analysis need fundamental mathematical skills like addition, subtraction, multiplication, division, etc. The tests contain operations with whole numbers, rational numbers, ratio and proportion, interest and percentage, and measurement. Numerical Analysis is one factor that helps characterize mathematics comprehension, and it also assesses logical thinking.

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Examples of Numerical Analysis Questions and Answers for TNUSRB SI Exam

EXAMPLE 1.

The total ages of Amal, Anwar, and Antony is 80 years. What was the sum of their ages after three years?

(a) 71 years (b) 72 years

(c) 74 years (d) 77 years

Sol.   (a) Needed sum = $(80 - 3 \times 3)$ years

= $(80 - 9)$ years

= 71 years.

EXAMPLE 2.

Two train tickets from city 1 to 2 and three tickets from city 1 to 3 cost Rs. 77 but three tickets from city 1 to 2 and two tickets from city 1 to 3 cost Rs. 73. What are the fares for cities 2 and 3 from A?

> (a) `4, Rs23 (b) `13, Rs17
>
> (c) `15, Rs14 (d) `17, Rs13

Sol.   (b) Let Rs. x be the fare of city 2 from city 1 and Rs. y be the fare of city 3 from city A. Then,

$2x + 3y = 77$ …(i)

$3x + 2y = 73$ …(ii)

Multiplying (1) by 3 and (2) by 2 and subtracting, we obtain: $5y = 85$ or $y = 17$. Putting $y = 17$ in (1), we obtain: $x = 13$.

EXAMPLE 3.

A student received twice as numerous sums wrong as he got right. If he tried 48 sums in all, how many did he solve perfectly?

> (a) 12 (b) 16
>
> (c) 18 (d) 24

Sol.   (b) Suppose the boy obtain x sums right and 2x sums wrong. Therefore, $x \div 2x = 48$, $3x = 48$, $x = 16$.

EXAMPLE 4.

In a group of cows and Crows, the number of legs is 14 more than twice the number of heads. The number of cows is

> (a) 5 (b) 7
>
> (c) 10 (d) 12

Sol.   (b) Let the number of cows is x and the number of Crows is y.

> Therefore, $4x + 2y = 2(x + y) + 14$, $4x + 2y = 2x + 2y + 14$, $2x = 14$, $x = 7$.

EXAMPLE 5.

Rani, Reena, Sukhada, Jane, and Radhika are friends. Reena is 18 years of her age, Radhika is younger than Reena, Rani is in between Radhika and Sukhada while Reena is in Between Jane and Radhika. If there be a distinction of two years between the ages of the girls from elder to the youngest, how old is Sukhada?

(a) 10 years (b) 12 years

(c) 14 years (d) 16 years

Sol.   (b) Arranging them based on their ages,

Jane>Reena>Radhika>Rani>Sukhada

If Reena is 18 years old then Sukhada is 12 years.

As you know you need to practice answering numerical aptitude test questions to the best preparation of the aptitude section in competitive examinations. In this article, we share numerical analysis study notes and you can check your abilities through the practice of the questions and answers for a better score in your competitive exams. To improve your performance, you can visit the **ENTRI Learning App**, and as well as you can practice aptitude questions with solved answers.