

MATHEMATICS (51)

CLASS X

There will be **one** written paper of **two and a half** hours duration carrying **80 marks** and Internal Assessment of **20 marks**.

Certain questions may require the use of Mathematical tables (Logarithmic and Trigonometric tables).

1. Commercial Mathematics

(i) Goods and Services Tax (GST)

Computation of tax including problems involving discounts, list-price, profit loss, basic/cost price including inverse cases. Candidates are also expected to find price paid by the consumer after paying State Goods and Service Tax (SGST) and Central Goods and Service Tax (CGST) - the different rates as in vogue on different types of items will be provided. Problems based on corresponding inverse cases are also included.

(ii) Banking

Recurring Deposit Accounts: computation of interest and maturity value using the formula:

$$I = P \frac{n(n+1)}{2 \times 12} \times \frac{r}{100}$$

$$MV = P \times n + I$$

2. Algebra

(i) Linear Inequalities

Linear Inequalities in one unknown for $x \in N, W, Z, R$. Solving:

- Algebraically and writing the solution in set notation form.
- Representation of solution on the number line.

(ii) Quadratic Equations in one variable

(a) Nature of roots

- Two distinct real roots if $b^2 - 4ac > 0$
- Two equal real roots if $b^2 - 4ac = 0$
- No real roots if $b^2 - 4ac < 0$

(b) Solving Quadratic equations by:

- Factorisation
- Using Formula

(c) Solving simple quadratic equation problems.

(iii) Ratio and Proportion

(a) Proportion, Continued proportion, mean proportion

(b) Componendo, dividendo, alternendo, invertendo properties and their combinations.

(iv) Factorisation of polynomials:

(a) Factor Theorem.

(b) Remainder Theorem.

(c) Factorising a polynomial completely after obtaining one factor by factor theorem.

Note: $f(x)$ not to exceed degree 3.

(v) Matrices

(a) Order of a matrix: Row and column matrices.

(b) Compatibility for addition and multiplication.

(c) Null and Identity matrices.

(d) Addition and subtraction of 2×2 matrices.

(e) Multiplication of a 2×2 matrix by:

- a non-zero rational number
- a matrix

(vi) Arithmetic Progression

- Finding the General term of an A.P.
- Finding Sum of first 'n' terms of an A.P.

Maths Syllabus For Class 10 Icse

Jianjun Gao



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Table of Contents Maths Syllabus For Class 10 Icse

1. Understanding the eBook Maths Syllabus For Class 10 Icse
 - The Rise of Digital Reading Maths Syllabus For Class 10 Icse
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Syllabus For Class 10 Icse
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Maths Syllabus For Class 10 Icse
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Syllabus For Class 10 Icse
 - Personalized Recommendations
 - Maths Syllabus For Class 10 Icse User Reviews and Ratings
 - Maths Syllabus For Class 10 Icse and Bestseller Lists
5. Accessing Maths Syllabus For Class 10 Icse Free and Paid eBooks
 - Maths Syllabus For Class 10 Icse Public Domain eBooks
 - Maths Syllabus For Class 10 Icse eBook Subscription Services
 - Maths Syllabus For Class 10 Icse Budget-Friendly Options

6. Navigating Maths Syllabus For Class 10 Icse eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Syllabus For Class 10 Icse Compatibility with Devices
 - Maths Syllabus For Class 10 Icse Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Syllabus For Class 10 Icse
 - Highlighting and Note-Taking Maths Syllabus For Class 10 Icse
 - Interactive Elements Maths Syllabus For Class 10 Icse
8. Staying Engaged with Maths Syllabus For Class 10 Icse
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Syllabus For Class 10 Icse
9. Balancing eBooks and Physical Books Maths Syllabus For Class 10 Icse
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Syllabus For Class 10 Icse
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Maths Syllabus For Class 10 Icse
 - Setting Reading Goals Maths Syllabus For Class 10 Icse
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maths Syllabus For Class 10 Icse
 - Fact-Checking eBook Content of Maths Syllabus For Class 10 Icse
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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