

MATHEMATICS (51)

Aims:

1. To acquire knowledge and understanding of the terms, symbols, concepts, principles, processes, proofs, etc. of mathematics.
2. To develop an understanding of mathematical concepts and their application to further studies in mathematics and science.
3. To develop skills to apply mathematical knowledge to solve real life problems.
4. To develop the necessary skills to work with modern technological devices such as calculators and computers in real life situations.
5. To develop drawing skills, skills of reading tables, charts and graphs.
6. To develop an interest in mathematics.

CLASS IX

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

The paper will be divided into *two sections*, Section I (-40 marks), Section II (-40 marks).

Section I: will consist of compulsory short answer questions.

Section II: Candidates will be required to answer *four out of seven* questions.

The solution of a question may require the knowledge of more than one branch of the syllabus.

1. Pure Arithmetic

Rational and Irrational Numbers

Rational, irrational numbers as real numbers, their place in the number system, Surds and rationalization of surds, Simplifying an expression by rationalizing the denominator.

2. Commercial Mathematics

Compound Interest

(a) Compound interest as a repeated Simple Interest computation with a growing Principal. Use of this in computing Amount over a period of 2 or 3 years.

(b) Use of formula $A = P(1 + \frac{r}{100})^n$. Finding CI from the relation $CI = A - P$.

- Interest compounded half-yearly included.
- Using the formula to find one quantity given different combinations of A, P, r, n, CI and SI; difference between CI and SI type included.

- Rate of growth and depreciation.

Note: Paying back in equal installments, being given rate of interest and installment amount, **not included**.

3. Algebra

(i) Expansions

Recall of concepts learned in earlier classes.

$$(a \pm b)^2$$

$$(a \pm b)^3$$

$$(x \pm a)(x \pm b)$$

$$(a \pm b \pm c)^2$$

(ii) Factorisation

$$a^2 - b^2$$

$$a^2 \pm b^2$$

$ax^2 + bx + c$, by splitting the middle term.

(iii) Simultaneous Linear Equations in two variables. (With numerical coefficients only)

- Solving algebraically by:

- Elimination
- Substitution and
- Cross Multiplication method

- Solving simple problems by framing appropriate equations.

(iv) Indices/Exponents

Handling positive, fractional, negative and "zero" indices.

Simplification of expressions involving various exponents

Maths Syllabus For Class 10 Icse

S Ashworth



Maths Syllabus For Class 10 Icse:

The book delves into Maths Syllabus For Class 10 Icse. Maths Syllabus For Class 10 Icse is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Maths Syllabus For Class 10 Icse, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Maths Syllabus For Class 10 Icse
 - Chapter 2: Essential Elements of Maths Syllabus For Class 10 Icse
 - Chapter 3: Maths Syllabus For Class 10 Icse in Everyday Life
 - Chapter 4: Maths Syllabus For Class 10 Icse in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Maths Syllabus For Class 10 Icse. The first chapter will explore what Maths Syllabus For Class 10 Icse is, why Maths Syllabus For Class 10 Icse is vital, and how to effectively learn about Maths Syllabus For Class 10 Icse.
 3. In chapter 2, the author will delve into the foundational concepts of Maths Syllabus For Class 10 Icse. This chapter will elucidate the essential principles that must be understood to grasp Maths Syllabus For Class 10 Icse in its entirety.
 4. In chapter 3, this book will examine the practical applications of Maths Syllabus For Class 10 Icse in daily life. This chapter will showcase real-world examples of how Maths Syllabus For Class 10 Icse can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Maths Syllabus For Class 10 Icse in specific contexts. The fourth chapter will explore how Maths Syllabus For Class 10 Icse is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Maths Syllabus For Class 10 Icse. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Maths Syllabus For Class 10 Icse.

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