

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

JE Gale



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