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 $A = P\left(1 + \frac{r}{100}\right)^n$. 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

$a^2 - b^2$

$a^3 \pm b^3$

$ax^2 + bx + c$, 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

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