STD – X

ENGLISH LITERATURE
1st Term
Drama - Julius Caesar
1. Act 3, Scene 1 , 2, 3

Prose - Short Stories
1. With the Photographer
2. The Elevator

Poetry
1. Haunted Houses
2. The Glove and the Lions

2nd Term
Drama - Julius Caesar
1. Act 4, Scene 1, 2 , 3
2. Act 5 Scene 1,2

Prose - Short Stories
1. The Last Lesson
2. The Girl Who Can

Poetry
1. When Great Trees Fall
2. A Considerable Speck

3rd Term
Drama - Julius Caesar
1. Act 5, Scene 3, 4, 5

Prose - Short Stories
1. The Pedestrian

Poetry
1. The Power of Music
2. Revision

ENGLISH LANGUAGE
1st Term
Grammar
1. Tenses
2. Prepositions
3. Active and Passive Voice
4. Direct and Indirect Speech
5. Transformation of Sentences

Essay Writing
1. Imagine you have found an injured cat while walking back from school. How did you respond? What did you do to help the injured animal?
2. Having easy access to a vast amount of information online does more harm than good. Express your views either for or against the given statement.

Letter Writing
1. Your family and you were attacked by a gang of miscreants on the highway. Write a letter to your grandmother describing the terrifying incident, how you managed to escape, and how you felt.

2. Write a letter to the President of your Apartment Owners' Association expressing your concern regarding the safety of the elderly who live alone and offering a few suggestions to resolve this problem.

3. Write a letter to the CEO of a cab service company complaining about the unprofessional and irresponsible behaviour of their drivers. Suggest measures to ensure passenger safety and improve the conduct of the drivers.

Notice Writing and Email Writing
1a . There is a Short Story Competition being organised for classes 9 to 12. Draft a notice inviting entries. State the theme and the last date for entries.

1b. Send an email to a renowned author in your city requesting him or her to judge the story writing competition. Give all relevant details.

2a. Your school is hosting an Inter-school Science Exhibition. Write a notice for the school notice board inviting entries from the students. Give all relevant details.

2b. Write an email to the Principal of a neighbouring school inviting him or her to send a team of a students to participate in the Inter-school Science Exhibition to be held in your school.

3a. The Dance Club in your school is conducting an audition to recruit new members for the dance team. Write a notice on behalf of the club giving details of the event.

3b. Write an email to a dance teacher of a neighbouring school inviting him or her to be a judge at the audition to recruit new members for the dance team.

Comprehension
1. Practice Paper 1
2. Practice Paper 2
3. Practice Paper 3

2nd Term
Grammar
1. Synthesis of Sentences
2. Practice Papers 1 to 10

Essay Writing
1. You spent a day at a bustling market. Describe the sights, sounds, and smells that filled the air as you explored. How did the atmosphere of the market make you feel?
2. You were left in charge of your house for a week. How did you manage your house during that time? Did it bring about a lasting change in you? What did you learn from the experience?

Letter Writing
1. Write a letter to the Chief Minister of your state complaining about the poor hygiene and sanitation at the Government Hospital of your locality and giving suggestions to improve the conditions of the facilities.

2. You have recently started learning to swim/dance. Write to your grandparents telling them why you joined the classes, how you are progressing, and how soon you hope to become an expert.

Notice Writing and Email Writing
1a. As captain of the Basketball team of your school, write a notice informing all the students that your team has reached the Zonal Finals. Give details of the final match inviting them to attend the match and provide moral support.

1b. Write an email to the Director of the Sports Academy of your city, requesting him or her to be a part of the Zonal Ginals. Give all necessary details.

2a. The school is hosting an Inter-House Musical Carnival for STD VIII to X. Write a notice inviting interested candidates to register for auditions. Add other relevant details.

2b. Send an email to a famous singer of your city inviting him or her to judge the event.

Comprehension
1. Practice Paper 4
2. Practice Paper 5

3rd Term
Revision - Practice Papers 11 to 16

FIRST TERM

गद्य भाग
बड़े घर की बेटी

भीड में खोया आदमी

पद्य भाग

सूर के पद
भिक्षुक
एकांकी

सूखी डाली
महाभारत एक सांझ

व्याकरण

भाव वाचक संज्ञा बनाना

★ पर्यायवाची शब्द

→ विलोम शब्द

* अनेकार्थक शब्द

मुहावरे और लोकोक्तियों

निबंध लेखन

पत्र लेखन
अपठित गद्यांश
चित्र लेखन

THIRD TERM

गद्य भाग

संदेह
दो कलाकार
मुहावरे और लोकोक्तियों

निबंध लेखन

चित्र लेखन
पत्र लेखन

अपठित गद्यांश

STD X GEOGRAPHY

1st Term Portion • Climate of India - March • Soil Resources - April
• Natural Vegetation - April-May • Water Resources – May
• Waste Management - May-June • Topo Sheet & India Map Work - Ongoing

2nd Term Portion

• Transport - July • Minerals & Energy Resources - I - July-August
• Minerals & Energy Resources - II - August

- Agriculture in India - I - August-September
- Agriculture in India - II (Food Crops) – September
- Topo Sheet & India Map Work – Ongoing

3rd Term Portion
- Agriculture in India - Cash Crops - October
- Agro-Based Industries - October-November
- Mineral-Based Industries - November-December
- Topo Sheet & India Map Work - Ongoing Project
- Wildlife Conservation Efforts in India

Economic Applications

1. Factors of production	Mar
2. Theory of Demand	April
3. Elasticity of Demand	April-May
4. Theory of Supply	May
5. Elasticity of Supply	June

Second Term

1.Nature and Structure of Markets	(July)
2.The State and Economic Development	(July–Aug)
3.Meaning and Functions of Money	(Aug)

Third Term

1.Commercial Banks	Sep
2.Central Bank	Oct
3.Inflation.	Nov 1

Projects: Draw demand curves for the product for which you think demand is inelastic and elastic.
2. Functioning of a Nationalized Bank
3. Causes of inflation in India and suggest measures to control inflation.
4. Role of entrepreneur in economic development of India

Std: X Commerce
Sub: Commercial studies

First Term

1. Stakeholders in Commercial Organisation
2. Capital and Revenue Expenditure
3. Final Accounts of Sole Proprietorship
4. Fundamental Concept of Cost
5. Budgeting

6. Source of Finance

Second Term

1. Marketing and Sales
2. Advertising and Sales Promotion
3. Consumer protection
4. E- Commerce
5. Striving for better environment
   + 1st term syllabus

Third Term

1. Recruitment, Selection and Training
2. Industrial relation, Trade union and Social security
3. Logistic and Insurance
4. Banking
   + 1st term and 2nd term syllabus

Mathematics:

First Term

Arithmetic: G.S.T. (Goods and Services Tax), Banking, Shares & Dividends. ITC (Input Tax Credit) i Algebra: Linear In equations, Quadratic Equations, Matrices, Arithmetic Progression (A.P.), Remainder & Factor Theorem. Geometry: Circle Construction, Circles Theorem.

Second Term

Algebra & Arithmetic: Ratio Proportion, Factorization , Revision of G.S.T., Banking, Shares & Dividends, Remainder & Factor Theorem. Co-ordinate Geometry: Reflection, Distance Formulae, Section Formulae. Mensuration: Cylinder, Cone, Sphere. Geometry: Cyclic properties of circles.

Third Term

Co-ordinate Geometry: Equation of a straight line, Section formulae revision. Geometry: Similarity of Triangles, Locus Theorem (Construction). Statistics & Probability: Probability, Median, and Ogive curve. Trigonometry: Height & Distance. Final Revision: Commercial Arithmetic, Locus-based construction, and Circle properties.

Class-10 Chemistry

First Term -- **Periodic Table:** Focuses on periodic properties including: - Atomic size - Metallic and non-metallic character - Ionisation potential - Electron affinity - Electronegativity - **Chemical Bonding:** Covers various types of bonds and specific molecular structures: - **Bond types:** Ionic (electrovalent), Covalent (polar and non-polar), and Co-ordinate bonds. - **Molecular structures:** ,**Key Concept:** Lone pair of electrons. - :** Includes **Gay-Lussac's Law** and the Mole Concept. - **Acids, Bases, and Salts:** Study of their properties and reactions.

Second Term

Salts & Their Types: Classifications and properties. Formulae: Empirical and molecular formulae. Mole Concept: Simple calculations involving mole mass, molar volume, and Avogadro's number. Stoichiometry: Calculations based on chemical equations. Electrolysis: Electrolytes vs. non-electrolytes, applications of electrolysis, and electro refining. Redox Reactions: Oxidation and reduction based on ion and electron transfer. Metallurgy: General processes. Inorganic Compounds: Hydrogen Chloride and Ammonia.

Final Term

Metallurgy of Aluminium: Specifically the Hall-Héroult process. Alloys & Amalgams: Definitions and examples. Nitric Acid - Laboratory and industrial preparation (Ostwald process), and the Brown Ring Test. Sulphuric Acid - The Contact Process, general preparation, and its role as an oxidizing and dehydrating agent. Organic Chemistry: Hydrocarbons and their types. Isomerism and Homologous series. Nomenclature (IUPAC naming) Functional Groups: Simple halides, double/triple bonds, alcohols, aldehydes, carboxylic acids, ketones, ethers, and esters. Nomenclature: IUPAC naming conventions. Reactions & Compounds: Addition reactions of alkenes and alkynes. Alcohols (specifically ethanol and methylated alcohol). Structure of acetic acid. Uses and introductions to these compounds.

Practical

1. Action of Heat • • Action of heat on Copper Sulphate Action of heat on Zinc Carbonate and Zinc Nitrate

2. Solution Preparation & Qualitative Analysis Making of solution by warming (if needed) and choose from substances containing: • Fe^{2+}, Fe^{3+}, Pb^{2+}, Zn^{2+}, NH_4^+

3. Identification of Nature To determine whether the given substance is acidic or basic (at least two tests).

4. Reactions with Concentrated HCl Adding HCl (conc.) to each of the following substances, warm, make observations, name any product and make deduction: a) Copper Oxide b) Manganese Dioxide

Physics

First Term

• Mechanics: Force, work, power, energy, uniform circular motion, types of energy. • Machines: Pulley, lever, principle of lever, and numerical problems on machines. • Energy: Principle of conservation of energy. • Light: o Reflection of light (glass block, prism). o Total internal reflection and critical angle of incidence. o Lenses (convex & concave). o Spectrum by prism and angle of deviation. o Refractive index

Second Term

• Sound: Echoes and their uses, velocity of light & sound (numerical sums), natural and forced vibrations, resonance, musical sound, loudness, pitch, intensity, and noise pollution. • Electricity & Magnetism: o Ohm's law, concept of e.m.f., potential difference. o Resistance in series and parallel (sums). o Electrical power and energy. • Household Electricity: Wiring, DC & AC current. • Electromagnetism: Oersted's experiment, Fleming's Left Hand Rule, and Transformers (step-up & step-down). • Advantage of AC on DC , Electro Magnetic Induction

Final Term

• Heat & Calorimetry • - Calorimetry concepts. • - Problems (sums) based on Latent Heat • • Modern Physics • - Radioactivity: Safety precautions when handling radioactive substances. • - Properties of Radiation Characteristics of • (alpha), • (beta), and • (gamma) rays. • -Radiation & Energy X-rays, Nuclear energy, Nuclear fission, and Nuclear fusion. • - Revision Solving nuclear reaction based questions, revision from test papers.

Practical

1. To find the mass of a given meter scale using a Spring Balance.
2. To determine the mass of a given meter scale using the Law of Moments.
3. To determine the Velocity Ratio (V.R) and Mechanical Advantage (M.A) of a given pulley system.
4. To trace the course of different rays of light and measure the lateral displacement.
5. To find the focal length of a convex lens by: a. b. The distant object method Using a needle and a plane mirror
6. To find the focal length of a convex lens by using two pins and the formula:
7. $f = (u \times v) / (u + v)$
8. To verify Ohm's Law and hence find the value of unknown resistances.
9. Determination of the Specific Heat Capacity of a metal. Determination of the Specific Latent Heat of ice.
10. Verification of Ohm's Law using simple electric circuits.

Biology

First Term

1. The cell, cell cycle and cell division
2. Structure of chromosomes
3. Genetus
4. Absorption by roots
5. Transpiration

Second Term

1.Photosynthesis
2. Chemical cordination in plants
3. The excretory system
4. pollution

Third Term

1. The circulatory system
2. The nervous system and sense organs
3. Endocrine system
4. The Reproductive system
5. Population and its control
6. Human evolution

Practical

1) observation of permanent slide mitosis.

2) diffusion using potassium permanganate in water.

3) osmosis -- thistle funnel , experiment and potato osmoscope.

4) process of transpiration using abell jar.

5) unequal transpiration of leave using cobalt chloride paper.

6) Rate of transpiration gongs potometer

7) To demonstrate the process of absorption in water by root in plants

8) Internal structure of heart'

9) Internal structure of eye and ear

10) Internal structure of kidney

11) Location and function of endocrine glands

Computer

First Term

1. Revision of Class 9 Syllabus *(March)*
2. Object-Oriented Programming Concept *(April)*
3. Objects and Classes *(April–May)*
4. Methods and Functions *(May)*
5. Constructors *(June)*

Second Term

6. Library Classes *(August)*
7. Arrays *(September)*
8. String Handling *(October)*

Pre-board

1. All the above chapters
2. Control structure.

Computer Practical

1. Prime Number Program

Write a program to check whether a number entered by the user is a prime number or not.

2. Palindrome Number

Write a program to check whether a number is a palindrome.

Example:
121 → Palindrome

3. Armstrong Number

Write a program to check whether a number is an Armstrong number.

Example:
153 → $1^3 + 5^3 + 3^3 = 153$

4. Fibonacci Series

Write a program to print the Fibonacci series up to `n` terms.

5. Factorial Program

Write a program to find the factorial of a number using a loop.

$n! = n \times (n-1) \times (n-2) \times \cdots \times 1$n! = n \times (n-1) \times (n-2) \times \cdots \times
1n! = n \times (n-1) \times (n-2) \times \cdots \times 1

6. Reverse a Number

Write a program to reverse the digits of a number.

Example:
1234 → 4321

7. Sum of Digits

Write a program to find the sum of digits of a number.

Example:
456 → 4 + 5 + 6 = 15

8. Buzz Number

Write a program to check whether a number is a Buzz number.

(A number ending with 7 or divisible by 7)

9. Neon Number

Write a program to check whether a number is a Neon number.

Example:
$9 \rightarrow 9^2 = 81 \rightarrow 8 + 1 = 9$

10. Automorphic Number

Write a program to check whether a number is automorphic.

Example:
$25 \rightarrow 25^2 = 625$

11. Binary to Decimal Conversion

Write a program to convert a binary number into decimal.

12. Decimal to Binary Conversion

Write a program to convert a decimal number into binary.

13. Menu Driven Calculator

Write a menu-driven program to perform:

- Addition
- Subtraction
- Multiplication
- Division

using `switch-case`.

14. Pattern Printing

Write a program to print the following pattern:

```
1
12
123
```

```
1234
12345
```

15. Array – Largest and Smallest Element

Write a program to store 10 numbers in an array and display:

- Largest number
- Smallest number

16. Array – Linear Search

Write a program to search an element in a one-dimensional array using linear search.

17. Matrix Addition

Write a program to add two matrices.

18. String Palindrome

Write a program to check whether a string is palindrome or not.

Example:
“MADAM”

19. Count Vowels and Consonants

Write a program to count vowels and consonants in a sentence.

20. Student Grade Program

Write a program to input marks of 5 subjects and calculate:

- Total
- Percentage

Then display grade according to percentage.

Example:

- 90% and above → A
- 80%–89% → B
- 60%–79% → C
- Below 60% → D