



# ST. THOMAS SCHOOL

Hardag, Ranchi -835221

## SYLLABUS

Session : 2026 -27

Class - IX

Name : .....

Sec. : ..... Roll No. : .....



## English Language

Prescribed book: Total English 9 (Xavier Pinto )

### First Term

- Test Paper 1 : Grammar + Essay
- Test Paper 2 : Grammar + Letter(2)
- Test Paper 3 : Grammar + Notice & Email
- Test Paper 4 : Grammar + Comprehension passage
- Test Paper 5 : Grammar + Notice & Email

### Second Term

- Test Paper 6 : Grammar + Essay
- Test Paper 7 : Grammar + Letter(2)
- Test Paper 8 : Grammar + Notice & Email
- Test Paper 9 : Grammar + Comprehension Passage
- Test Paper 10 : Grammar + Essay + Notice & Email

### Third Term

- Test Paper 11 : Grammar+ Essay
- Test Paper 12 : Grammar + Letter
- Test Paper 13 : Grammar + Notice & Email
- Test Paper 14 : Grammar + Comprehension Passage
- Test Paper 15 : Grammar + Essay + Notice & Email

## ENGLISH LITERATURE

Prescribed books:

- 1) Julius Caesar - William Shakespeare (Xavier Pinto)
- 2) A Collection of ICSE Poems & Short Stories (Evergreen Publication)

### First Term

	<u>Chapter Number</u>	<u>Chapter Name</u>
<b>PROSE</b>	Chapter 1	Bonku Babu's Friend (Satyajit Ray)
	Chapter 2	Oliver Asks for More (Charles Dickens)
<b>POETRY</b>	Chapter 1	A Work of Artifice ( Marge Piercy)
	Chapter 2	Skimblehanks: The Railway Cat (T.S. Eliot)
<b>DRAMA</b>		Julius Caesar - Act I Scene 1 & 2

### Second Term

	<u>Chapter Number</u>	<u>Chapter Name</u>
<b>PROSE</b>	Chapter 3	The Model Millionaire ( Oscar Wilde)
	Chapter 4	The Home-coming ( Rabindranath Tagore)
<b>POETRY</b>	Chapter 3	I Remember,I Remember ( Thomas Hood)
	Chapter 4	A Doctor 's Journal Entry for August 6,1945 (Vikram Seth)
<b>DRAMA</b>		Julius Caesar - Act I Scene 3 & Act II Scene 1

### Third Term

	<u>Chapter Number</u>	<u>Chapter Name</u>
<b>PROSE</b>	Chapter 5	The Boy who Broke the Bank ( Ruskin Bond)
<b>POETRY</b>	Chapter 5	The Night Mail ( W.H. Auden)
<b>DRAMA</b>		Julius Caesar - Act II Scene 2,3,4

- Note- Extract questions, MCQ, H.O.T. Questions & Competency Based Questions (all the three terms)

### विषय-हिंदी

पाठ्यपुस्तककानामः सरस हिंदी व्याकरण/ साहित्य सागर कहानियाँ /साहित्य सागर  
पधभाग

### 1<sup>st</sup> TERM

### हिंदी व्याकरण

पाठ नंबर	पाठ का नाम	विषय वस्तु
1.	व्याकरण	वर्णविचार, शब्दविचार, वाक्यविचार (व्याख्या और अभ्यास कार्य)
2.	संज्ञा	संज्ञा के भेद, संज्ञाओं का रूप परिवर्तन (व्याख्या और अभ्यास कार्य)
3.	लिंग, वचन	लिंग के भेद, वचन के भेद (व्याख्या और अभ्यास कार्य)
4.	कारक	कारक के भेद (व्याख्या और अभ्यास कार्य)
5.	पर्यायवाची शब्द	अंक-किनारा

6.	विलोम शब्द	अधम-उत्तम से देव-दानव तक
7.	अनेकार्थी शब्द	1अम्बर से 23 कुल तक
8.	एकार्थकप्रतीतहोनेवाले शब्द	1 से 13
9.	अनेकशब्दोंकेलिएएक शब्द	1 से 40
10.	मुहावरे	1 से 35
11.	लोकोक्ति	1 से 23
12.	प्रस्ताव निबंध लेखन चित्र पर आधारित मौलिक कहानीअपठित गद्यांश व्यावहारिक व्याकरण	

### हिंदी साहित्य( गद्य एवं पद्य भाग)

पाठनंब र.	पाठकानाम	विषयवस्तु
पाठ-1	बात अठन्नी की	वाचन,व्याख्या,अभ्यास

पाठ-2	काकी	वाचन,व्याख्या,अभ्यास
पाठ-1	साखी	वाचन,व्याख्या,अभ्यास
पाठ-2	कुंडलियाँ	वाचन, व्याख्या, अभ्यास

## 2<sup>nd</sup> Term

### हिंदी व्याकरण

पाठ नंबर	पाठ का नाम	विषय वस्तु
पाठ-5	सर्वनाम	सर्वनाम के भेद (व्याख्या और अभ्यास कार्य)
पाठ-6	विशेषण	विशेषण के भेद व्याख्या और अभ्यास कार्य)
पाठ-7	क्रिया	क्रिया के भेद ( व्याख्या और अभ्यास कार्य )
पाठ 8	क्रिया विशेषण	क्रिया विशेषण के भेद (व्याख्या और अभ्यास कार्य )
पाठ-9	पर्यायवाची शब्द	किरण-प्रेम
पाठ-10	विलोमशब्द	धनी-निर्धन स जल-निर्जल
पाठ 11	अनेकार्थी शब्द	24-46
पाठ 12	एकार्थक प्रतीत होने वाले शब्द	14-28
पाठ 13	अनेक शब्दों के लिए एक शब्द	41-80
पाठ 14	प्रस्ताव, निबंध लेखन, चित्र लेखन पत्र लेखन, अपठित गद्यांश	

हिंदी साहित्य( गद्य एवं पद्य भाग )

पाठ नंबर	पाठ का नाम	विषय वस्तु
पाठ3	महायज्ञ का पुरस्कार	वाचनव्याख्या अभ्यास
पाठ4	नेताजी का चश्मा	वाचनव्याख्या अभ्यास
पाठ3	स्वर्ग बना सकते हैं	वाचनव्याख्या अभ्यास
पाठ 4	वह जन्मभूमि मेरी	वाचनव्याख्याअभ्यास

3<sup>rd</sup> Term

हिंदी व्याकरण

पाठ नंबर	पाठ का नाम	विषय वस्तु
पाठ 1	उपसर्ग	उपसर्ग के भेद व्याख्या एवं अभ्यास
पाठ 2	प्रत्यय	प्रत्यय के भेद व्याख्या एवं अभ्यास
पाठ 3	काल	काल के भेद व्याख्या एवं अभ्यास
पाठ 4	वाक्य संश्लेषण	व्याख्या एवं अभ्यास करें
पाठ 5	वाक्य रूपांतरण	व्याख्या एवं अभ्यास कार्य
पाठ 6	विराम चिन्ह	व्याख्या एवं अभ्यास कार्य
पाठ 7	वाक्यगत अशुद्धियों का शोधन	व्याख्या एवं अभ्यास कार्य

पाठ 8	शब्द भंडार के शेषभाग	व्याख्या अभ्यास कार्य
पाठ 9	प्रस्ताव, निबंध लेखन, चित्र पर आधारित मौलिक कहानी, पत्र लेखन, अपठित गद्यांश	

## हिंदी साहित्य

पाठ-5	अपना अपना भाग्य	वाचन व्याख्या अभ्यास
पाठ-6	बड़े घर की बेटी	वाचन व्याख्या अभ्यास
पाठ-5	मेघ आए	वाचन व्याख्या अभ्यास
पाठ-6	सूर के पद	वाचन व्याख्या अभ्यास

## Subject: Physics

Name of the book : Concise Physics

### 1<sup>st</sup> Term

Chapter No.	Chapter Name	Content
1	Measurement and Experiment	Need of unit for measurement, Choice of unit, System of unit, Unit of length, mass, time, Measurement of length, Vernier caliper, Principle of screw, Screw gauge, Simple Pendulum
2	Motion in one dimension	Scalar quantity and vector quantity, Rest and motion, Distance and displacement, Speed and velocity, Acceleration and retardation, Acceleration due to gravity, Graphical representation of linear motion, Equations of motion.
3	Laws of motion	Effect of force, Contact force, Non contact force, Newton's first law of motion and Inertia, Mass and inertia, Linear momentum and Newton's second law of motion, Newton's Third law of motion, Gravitation, Relationship between $g$ and $G$ , Mass and weight
4	Pressure in fluid and atmospheric Pressure	Thrust and pressure, Pressure in fluids, Pressure exerted by a liquid column, Laws of liquid pressure, Some consequences of liquid pressure, Pascal's law and its applications, Atmospheric pressure and its consequences, Measurement of atmospheric pressure

## 2<sup>nd</sup> Term

Chapter No.	Chapter Name	Content
5	Upthrust in Fluid, Archimede's pressure	Buoyancy and upthrust, characteristic properties of upthrust, Reason for upthrust, Archimedes' principles, Density, Relative density, Relationship between density and relative density, Determination of relative density of solid substance by Archimede's principle, Determination of relative density of a liquid by Archimedes principle, Floatation, Principle of floatation and its Applications
6	Heat and Energy	Concept of heat, Concept of temperature, Thermal expansion, Anomalous expansion of water, Consequences of Anomalous expansion of water, Energy flow and its importance, Sources of energy, Renewable and Non renewable source of energy, Juicious use of energy, Production of electricity from solar energy, wind energy, Greenhouse effect and global warming
7	Reflection Of light	Laws of reflection and formation of image by plane mirror, Real and virtual image, Lateral inversion, Image is formed in a pair of mirrors, spherical mirror, image formation and their uses, Mirror formula, Uses of spherical mirrors,

## 3<sup>rd</sup> Term

Chapter No.	Chapter Name	Content
8	Propagation of sound	Production and propagation of sound waves, Relationship between the Wavelength, wave velocity and frequency, Speed of sound in different media, Factor affecting the speed of sound in gas.
9	Current Electricity	Electric current, Sources. Of direct current, Symbols using circuit diagram, Insulators and conductors, Potential different and resistance..
10	Magnetism	Induced magnetism and neutral point, Lines of magnetic field, Properties of magnetic field lines, Ploting of non uniform magnetic fields of a bar magnet and neutral points, Electromagnet and its uses
<b>CLASS 10</b>		
1	Force	Turning force concept, moment of a force, force in equilibrium, centre of gravity, Uniform circular motion.
2	Work, Energy and Power	Work, Measurement of work, Condition for work done to be zero, Potential energy, Power, Different forms of energy, Work energy theorem, Relation between kinetic energy and momentum, Conservation of energy
7	Sound	Sound wave, Reflection of sound wave, Echo, Natural and Damped vibrations, Forced vibration, Resonance, characteristic of sound

# Subject : Chemistry

Name of the book – Concise Chemistry

1<sup>st</sup> Term

Ch no.	Name of the chapter	Content
1	The language of chemistry.	<ul style="list-style-type: none"><li>• Symbols</li><li>• Valency</li><li>• Define variable valency and its examples</li><li>• Criss- cross method</li><li>• Some common electrovalent positive and negative ions</li><li>• Naming certain compounds</li><li>• To calculate the valency from the formula</li><li>• Balance chemical equations</li><li>• Relative atomic and molecular mass</li><li>• Percentage composition</li><li>• Empirical formula of a compound</li></ul>
2	Chemical changes and reactions	<ul style="list-style-type: none"><li>• Define chemical change and characteristics of a chemical change</li><li>• Characteristics of chemical reactions<ul style="list-style-type: none"><li>➤ Evolution of gas</li><li>➤ Change of colour</li><li>➤ Formation of ppt</li><li>➤ Change of state</li></ul></li><li>• Types of chemical reactions<ul style="list-style-type: none"><li>➤ Direct combination</li><li>➤ Decomposition</li><li>➤ Displacement</li><li>➤ Double displacement</li></ul></li><li>• Energy change in chemical reactions</li></ul>
7	Study of gas laws	<ul style="list-style-type: none"><li>• Behavior and characteristics properties of gases</li><li>• Gas law</li><li>• Boyles law and mathematical expression of Boyles law</li><li>• Charles law and Mathematical expression of Charles law</li><li>• Absolute Zero</li><li>• Gas equation (P, V&amp;T)</li><li>• Relationship between Kelvin and Celsius scale of temperature.</li><li>• S.T.P (Simple calculations)</li></ul>

## 2<sup>nd</sup> Term

Ch no.	Name of the chapter	Content
3	Water	<ul style="list-style-type: none"><li>• Physical properties of water</li><li>• Water as a universal solvent</li><li>• Hydrated and anhydrous substances</li><li>• Efflorescence substances</li><li>• Deliquescence substances</li><li>• Hygroscopic substances</li><li>• Drying and dehydrating substances</li><li>• Soft and hard water</li><li>• Types and causes of hardness</li><li>• Removal of temporary and permanent hardness</li></ul>
4	Atomic structure & Chemical bonding	<ul style="list-style-type: none"><li>• Constituents of an atom</li><li>• J.J Thomson model</li><li>• Rutherford's atomic model</li><li>• Bohr's atomic model</li><li>• Atom-its structure</li><li>• Distribution of electrons in the orbits</li><li>• Isotopes and Isobars</li><li>• Electrovalent bond and electron dot structures</li><li>• Covalent bond and electron dot structures</li><li>• Polar and non-polar covalent compounds</li></ul>
6	Hydrogen	<ul style="list-style-type: none"><li>• Similarities between hydrogen and alkali metals</li><li>• Similarities between hydrogen and halogens</li><li>• Properties of hydrogen differ from those of alkali metals and halogens</li><li>• Hydrogen from: water, dilute acid and alkalis</li><li>• The preparation and collection of hydrogen by a standard laboratory method other than electrolysis</li><li>• Industrial manufacture of hydrogen by Bosch process</li><li>• Chemical properties of hydrogen</li><li>• Oxidation and Reduction</li></ul>

## 3<sup>rd</sup> Term

Ch no.	Name of the chapter	Content
5	The periodic table	<ul style="list-style-type: none"><li>• Dobereiner's Triads law</li><li>• Newland's law of Octaves</li><li>• Mendeleev's Periodic Table</li><li>• Atomic number as basis for Modern periodic law</li><li>• Modern Periodic Table</li><li>• Study of specific groups<ul style="list-style-type: none"><li>➤ Group 1 (Alkali Metals)</li><li>➤ Group 2 (Alkali Earth Metals)</li><li>➤ Group 17 (Halogens)</li><li>➤ Group 18 (Noble gases)</li></ul></li></ul>

8	Atmospheric pollution	<ul style="list-style-type: none"> <li>• Air pollution</li> <li>• Acid rain</li> <li>• Natural and Man-made sources of air pollutants</li> <li>• Global Warming <ul style="list-style-type: none"> <li>➤ Greenhouse effect</li> <li>➤ Advantage of greenhouse effect</li> <li>➤ Effects of Global Warming</li> <li>➤ Ways of Reducing Global Warming</li> </ul> </li> <li>• Ozone and function of ozone in the atmosphere</li> <li>• Depletion of ozone layer</li> </ul>
1	The periodic table (class-10 <sup>th</sup> book)	<ul style="list-style-type: none"> <li>• Salient features of the modern periodic table</li> <li>• Periodic properties and their variations in groups and periods. <ul style="list-style-type: none"> <li>➤ Atomic size</li> <li>➤ Metallic character</li> <li>➤ Non-metallic character</li> <li>➤ Ionization potential</li> <li>➤ Electron affinity</li> <li>➤ Electronegativity</li> </ul> </li> <li>• Periodicity on the basis of atomic number for elements.</li> <li>• (Special reference to the alkali metals, alkaline earth metals, halogens and inert gases).</li> </ul>
2	Chemical bonding (class-10 <sup>th</sup> book)	<ul style="list-style-type: none"> <li>• Electrovalent bond and electron dot structure of electrovalent compounds</li> <li>• Covalent bond and electron dot structure of covalent molecules</li> <li>• Coordinate bond <ul style="list-style-type: none"> <li>➤ Formation of hydronium ion and hydroxyl ion.</li> <li>➤ Formation of Ammonium ion</li> </ul> </li> </ul>

## Subject: Biology

Name of the book :

1. Concise Biology – Part I ( Selina Publication )
2. Concise Biology - Part II ( Selina Publication )

### 1<sup>st</sup> Term

(From 9<sup>th</sup> book - Part I)

Chapter No.	Chapter Name	Content
8	Five kingdom classification	<ul style="list-style-type: none"> <li>• Characteristics of each kingdom with examples</li> <li>• Characteristics of each Phylum of animal kingdom</li> </ul>
9	Economic importance of bacteria	<ul style="list-style-type: none"> <li>• Introduction, Structure and Reproduction</li> <li>• Important role of bacteria in medicine industry and agriculture</li> <li>• Harmful role of bacteria</li> </ul>
10	Nutrition	<ul style="list-style-type: none"> <li>• Classification of Nutrients</li> </ul>

		<ul style="list-style-type: none"> <li>• Function of carbohydrates , fats, proteins and minerals</li> <li>• Role of cellulose in diet</li> <li>• Sources of vitamins, their functions and deficiency diseases</li> <li>• Balanced diet</li> <li>• Malnutrition</li> </ul>
11	Digestive system	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Structure of tooth and types of teeth</li> <li>• Organs involved in digestion, digestive glands and their role in digestion</li> <li>• Experiments on digestion</li> </ul>

### 2<sup>nd</sup> Term

Chapter No.	Chapter Name	Content
7	Respiration in plants	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Process and gaseous exchange</li> <li>• Kinds of Respiration</li> <li>• Experiments on Respiration in plants</li> </ul>
14	The respiratory system of human	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Kinds of Respiration</li> <li>• Organs involved in respiration</li> <li>• Mechanism of breathing</li> <li>• Tissue respiration</li> <li>• Experiments on Respiration</li> </ul>
12	Skeleton : Movement and locomotion	<ul style="list-style-type: none"> <li>• Functions of human skeleton</li> <li>• Axial and appendicular skeleton</li> <li>• Location and types of joints</li> <li>• Muscles and its types</li> </ul>
13	Skin : The Jack of all Trades	<ul style="list-style-type: none"> <li>• Functions and Structure of human skin</li> <li>• Internal structure of skin and derivatives of skin</li> <li>• Heat production and Temperature Regulation</li> </ul>

### 3<sup>rd</sup> Term

#### From STD 10th book ( Part II)

Chapter No.	Chapter Name	Content
1	Cell	<ul style="list-style-type: none"> <li>• Structure and function of cell organelles</li> <li>• Bacterial cell</li> </ul>
4	Absorption by roots	<ul style="list-style-type: none"> <li>• Absorption by roots: Imbibition, Diffusion, Osmosis , Osmotic pressure, Root pressure,</li> </ul>

		<p>Turgidity, Flaccidity, Plasmolysis and Deplasmolysis, Absorption of water and minerals, Active transport and Passive transport</p> <ul style="list-style-type: none"> <li>• The rise of water up to the xylem, Forces responsible for ascent of sap, Transpiration pull</li> <li>• Characteristics of roots</li> <li>• Structure of a single full- grown root hair</li> <li>• Experiments on absorption and conduction of water</li> </ul>
5	Transpiration	<ul style="list-style-type: none"> <li>• Process of transpiration</li> <li>• Experiments on Transpiration</li> <li>• Kinds</li> <li>• Mechanism of stomatal transpiration on the basis of potassium ion exchange theory</li> <li>• Factors affecting rate of transpiration</li> <li>• Guttation and bleeding</li> <li>• Adaptations in plants to reduce transpiration</li> <li>• Significance of transpiration</li> </ul>
6	Photosynthesis	<ul style="list-style-type: none"> <li>• The process and significance of photosynthesis</li> <li>• Internal Structure of Chloroplast</li> <li>• Regulation of stomatal opening : potassium ion exchange theory</li> <li>• Process and End products of Photosynthesis Light reaction and Dark reaction</li> <li>• Balanced chemical equation to represent photosynthesis</li> <li>• Photosynthetic and biosynthetic phase</li> <li>• Adaptations in plants for Photosynthesis</li> <li>• Experiments to show the necessity of light, carbon dioxide and chlorophyll in chlorophyll</li> <li>• Test for Starch</li> <li>• Factors affecting Photosynthesis</li> <li>• Carbon cycle</li> </ul>
7	Chemical coordination in plants	<ul style="list-style-type: none"> <li>• Plant growth regulator - Phytohormones</li> <li>• Physiological effects of Auxins, Gibberellins, Cytokinins, Absciscic acid and Ethylene in regulating the growth of plants</li> <li>• Tropic movements in plant: phototropism , hydrotropism , chemotropism , geotropism and thigmotropism</li> </ul>
14	Human evolution	<ul style="list-style-type: none"> <li>• Human ancestors characteristics</li> <li>• Theories of evolution : Lamarck's Theory of Inheritance of acquired characters and Darwin's Theory of Natural Selection</li> </ul>
16	Pollution	<ul style="list-style-type: none"> <li>• Air pollution, water pollution, Thermal pollution, soil pollution, Radiation and noise pollution</li> <li>• Effects of various types of pollution: Acid-rain, Global</li> </ul>

		warming, Green house effect and ozone depletion <ul style="list-style-type: none"> <li>• Biodegradable and non-biodegradable wastes</li> <li>• Swachh Bharat Abhiyan</li> </ul>
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## Subject: Mathematics

Name of the books :

**Concise Mathematics - Class IX [SELINA]**

**Concise Mathematics - Class X [SELINA].**

### 1<sup>st</sup> Term

Chapter No.	Chapter Name
2	COMPOUND INTEREST [Without using formula]
3	COMPOUND INTEREST [Using formula]
6	SIMULTANEOUS (LINEAR) EQUATIONS [Including Problems]
7	INDICES [Exponents]
11	MID-POINT THEOREM & IT'S CONVERSE [Including Intercept Theorem]
13	RECTILINEAR FIGURES
17	STATISTICS
18	MEAN & MEDIAN [For ungrouped data only]
23	CO-ORDINATE GEOMETRY

### 2<sup>nd</sup> Term

Chapter No.	Chapter Name
15	AREA THEOREM.
16	CIRCLE.
21	TRIGONOMETRICAL RATIOS.
22	SOLUTION OF RIGHT TRIANGLES.
24	GRAPHICAL SOLUTIONS.
25	DISTANCE FORMULA.

### 3<sup>rd</sup> Term

Chapter No.	Chapter Name [From STD - X book]
4	LINEAR INEQUATIONS IN ONE VARIABLE.
5	QUADRATIC EQUATIONS.
7	RATIO & PROPORTIONS.

8	REMAINDER & FACTOR THEOREM.
12	REFLECTION.
13	SECTION & MIDPOINT FORMULA.
14	EQUATION OF A LINE.

## Subject: History & Civics

Name of the book : Total History & Civics (Morning Star)

### 1<sup>st</sup> Term

Chapter No.	Chapter Name	Content
Ch - 4	<b>(HISTORY)</b> The Mauryan Empire	Sources , Political History & Administration
Ch - 5	The Sangam Age	Sources , A brief Study of Society & Economy
Ch - 6	The Age Of The Guptas	Sources, Political History & Administration , Contribution to Education & Culture, Vedic Society and Economy
Ch- 7	The Mediaeval India (The Cholas)	Sources , Political History & Administration
Ch - 1	<b>(CIVICS)</b> Our Constitution	Definition , Date of Adoption , Enforcement and Significance
Ch - 2	Salient features of the Constitution I	Single Citizenship , Universal Adult Franchise , Fundamentals Rights and Duties

### 2<sup>nd</sup> Term

Chapter No.	Chapter Name	Content
Ch - 10	<b>(HISTORY)</b> Medieval India : The Composite Culture	Sources , Significance & Influence of Christianity
Ch - 11	The Modern Age in Europe : Renaissance	Definition, Causes , Impacts On Art , Literature and Science
Ch - 12	The Modern Age in Europe : Reformation	Causes , Martin Luther's Contribution , Counter Reformation
Ch - 13	The Modern Age in Europe : Industrial Revolution	Definition & Comparative Study Of Socialism & Capitalism
Ch - 3	<b>(CIVICS)</b> Saline features of the Constitution II	Directive Principles of State Policy : Meaning , Welfare State

Ch - 4	Election	Meaning , Composition of Election Commission , Types Of Election
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### 3<sup>rd</sup> Term

Chapter No.	Chapter Name	Content
	(HISTORY)	
( Std – X book ) Ch – 1	I. The Indian National Movement (1857-1917)	*Causes & Consequences
Ch - 2	1. The First War of Independence , 1857 2. The Growth of Nationalism	*Factors , Contribution of Raja Rammohan Roy , Jyotiba Phule , Role of. Press , Objectives of INA
Ch – 10 Ch - 11	II. The Contemporary World : *The First World War * Rise of Dictatorship	* Causes , Results * Causes of the Rise Of Nazism and Facism , Comparative Study Of ideologies Of Nazism and Facism
	( CIVICS)	
Ch – 1 Ch - 2	I. The Union Legislature : The Union Parliament  II. The Union Executive : The President and the Vice – President	*Lok & Rajya Sabha , Powers & Functions of Union Parliament  *Qualification, Election , Impeachment , Tenure , Powers

## Subject: Geography

Name of the book: Discovering the World- 9

### 1<sup>st</sup> Term

Chapter No.	Chapter Name	Content
1	The Earth as a Planet	Shape and Size of the Earth, indirect evidence of spherical shape of the earth and Earth- The living planet
7	Volcanoes	Meaning, types- active dormant and extinct, effects- constructive and destructive, important volcanic zone of the world
8	Earthquakes	Meaning, causes and measurement, Effects- destructive and constructive, earthquake zone of the world
11	The Atmosphere	Earth's Atmosphere, composition of the atmosphere, importance of various components, structure of the atmosphere, layers of the atmosphere, the Ozone

		layer and its causes of destruction.
12	Insolation	How does the Earth and its atmosphere get heated? Factors affecting the distribution of temperature
17	Natural vegetation of the world-I	Location, area, climate, natural vegetation and human adaptation (Equatorial region and Tropical grasslands)
	Map work	The Oceans, Seas, Gulfs, and Straits Mountains and Important Line of Latitude

## 2<sup>nd</sup> Term

Chapter No.	Chapter Name	Content
2	Geographic Grid: latitude and longitude	Geographic grid- latitudes and longitudes, concept of latitudes and longitude, calculation of time, great circles and their use
3	Rotation and Revolution of the Earth	Rotation and revolution meaning, the variation of day and night and season changes with equinoxes and solstice
4	Earth's Structure	Core, mantle, crust- meaning, extent and their composition
5	Landforms of the Earth	Mountains plateaus and plains (definition, types and their formations), Examples from the world and India
6	Rocks	Difference between minerals and rocks, types of rocks and their characteristics and formation, Rock cycle
18	Natural regions of the World-II	Location, area, climate, natural vegetation and human adaptation (Tropical desert, tropical monsoon and Mediterranean)
	Map work	Rivers, Desert and Plateaus

## 3<sup>rd</sup> Term

Chapter No.	Chapter Name	Content
9	Weathering and Denudation	Meaning, types and effects of weathering, meaning and agents of denudation, stages of river course and associated landforms, wind
10	Hydrosphere, Tides and Ocean currents	Meaning of hydrosphere, tides formation and pattern, ocean current- there circulation pattern and effects
13	Pressure belts and Types of winds	Meaning and factors that affect that atmospheric pressure, major pressure belts of the world, factors affecting direction and velocity of wind and velocity of wind, Types of wind
14	Humidity	Meaning and difference between relative and absolute humidity, condensation, precipitation and types of rainfall
15	Pollution- It's Sources and Effects	Types of pollution and its sources (air, water, soil and radiation)

16	Preventive measures of Pollution	Preventive measures: carpool, promotion of transport no smoking zone restricted use of fossil fuels saving energy and encouragement of organic farming
19	Natural regions of the World-III	Location, area, climate, natural vegetation and human adaptation (Temperate grasslands, Tiga and tundra)
	Map work	Complete map portions (includeing Natural Regions and important latitudes)

## **Subject: Computer Applications**

**Name of the book : Guided Computer Applications Text-book (I.C.S.E. X)**

**1<sup>st</sup> Term**

Chapter No.	Chapter Name	Content
1 (UNIT-1)	Introduction to Object Oriented Programming concepts**	Principles of Object Oriented Programming ( <i>Data abstraction, Inheritance, Polymorphism, Encapsulation</i> ), Introduction to JAVA ,Types of java programs – Applets and Applications, Java Compilation process, Java Source code, Byte code, Object code, Java Virtual Machine (JVM), Features of JAVA.
1 (UNIT-1)	Elementary Concept of Objects and Classes**	Class in Java, Object, Properties of Class and Object , Class as user defined data type
1 (UNIT-1)	Values and data types**	Character set, ASCII code, Unicode, Escape sequences [ <i>\n, \t, \\, \", \'</i> ], <i>Tokens and its types [keywords, identifiers, literals, punctuators, operators], primitive types and non -primitive types with examples, primitive types with size in bits and bytes, Implicit type conversion and Explicit type conversion.</i>
1 (UNIT-1)	Operators in Java**	<i>Forms of operators (Unary, Binary, Ternary), types of operators (Arithmetic, Relational, Logical, Assignment, Increment, Decrement, Short hand operators) Counters , Accumulators, Hierarchy of operators, 'new' operator, dot ( . ) operator , use of System.out.println() and System.out.print()</i>
1 (UNIT-1)	Input in Java**	Initialization, Parameter, introduction to packages, Input streams (Scanner Class), types of errors ( <i>syntax errors, runtime errors and logical errors</i> ), types of comments ( <i>Single line comment (//) and multiline comment (/* ... */)</i> ), <i>methods of Scanner class[nextShort(), nextInt( ), nextLong( ), nextFloat ( ),nextDouble( ), next( ), nextLine( ), next ( ).charAt(0) ]</i>

1 (UNIT-1)	Mathematical Library Methods**	Introduction to package java.lang [ default ], methods of Math class. <i>pow(x,y), sqrt(x), cbrt(x), ceil(x), floor(x), round(x), abs(a), max(a, b), min(a,b), random( ) ,Java expressions – using all the operators and methods of Math class.</i>
1 (UNIT-2)	Conditional constructs in Java**	<i>if, if else, if else if ladder, Nested if, switch case, default , break statement, fall through condition in switch case, Menu driven programs, System.exit(0) – to terminate the program.</i>

## 2<sup>nd</sup> Term

Chapter No.	Chapter Name	Content
1 (UNIT-3)	Iterative constructs in Java**	Definition, Types of looping statements, entry controlled loops [ for, while], exit controlled loop [do while] , variations in looping statements, and Jump statements, <i>break and continue, Simple programs illustrating all three loops, inter conversion from for – while – do while, finite and infinite, delay, multiple counter variables (initializations and updations).</i>
1 (UNIT-3)	Nested for loops**	<i>Nested for loop – definition &amp; syntax , Programs based on nested for loops [rectangular,triangular [right angled triangle only] patterns], series involving single variable.</i>
2	Class as the Basis of all Computation	Objects and Classes , <i>member variables; attributes ,member methods; Classes as abstractions for sets of objects; class as an object factory; primitive data types, composite data types. Variable declarations for both types; difference between the two types. Objects as instances of a class, creating object from a java class</i>

## 3<sup>rd</sup> Term

3	User-Defined Methods	Need of methods , syntax & forms of methods, method definition, method calling, <i>call/pass by value [with programs] and call/pass by reference [only definition with an example],Object creation, Actual parameters and formal parameters, Declaration of methods - static and non-static, method prototype / signature, Pure and impure methods, returning values from methods, method overloading.</i>
4	Constructors	Definition of Constructor, characteristics, types of constructors ( <i>Default constructor, parameterized constructor</i> ), use of constructors, constructor overloading , <i>Difference between constructor and method.</i>
Miscellaneous JAVA Programs & Output Questions		
Revision of 1 <sup>st</sup> & 2 <sup>nd</sup> Term (Chapter 1- UNIT 2 & 3)		

# Subject : Economic Applications

Name of the book :

Std 9 & 10 I.C.S.E Economic Applications(J.P.Goel and Kushal Goel)

## 1<sup>st</sup> Term

Chapter No.	Chapter Name	Content
7	Main Sectors of an Economy: Industry	Industrialisation, Importance, Interdependence of agriculture and industry, Problems, Impact, Pollution and Measures to protect ecosystem
8	Main Sectors of an Economy: Service	Classification, Importance, Interdependence among various sectors, Service sector in India
10	Economic Infrastructure	Meaning & Components if infrastructure Economic Infrastructure- TRANSPORT- Railway, Road, Water and Air, COMMUNICATION- Postal and Telecommunications, Bank, ENERGY - Importance, Sources and Effects of weak economic infrastructure
11	Social Infrastructure	Importance, Education, Health, Family welfare, Housing and Impacts of weak Social Infrastructure

## 2<sup>nd</sup> Term

Chapter No.	Chapter Name	Content
1	Elementary Theory of Demand	Meaning, Types, Demand schedule, Determinants, Law of demand, Changes in demand
2	Elasticity of Demand	Meaning, Degrees of price elasticity of demand, Factors affecting price elasticity of demand
3	Theory of Supply	Meaning, Difference between supply and stock, Types, Factors affecting supply, Supply schedule, Law of supply, Changes in quantity supplied, Change in supply

## 3<sup>rd</sup> Term

Chapter No.	Chapter Name	Content
4	Factors of Production	Meaning, Creation of Utility, Factors of Production- Classification, Land- Meaning, Characteristics, Functions, Productivity of Land, Destruction of ecosystem, Labour- Meaning, Classification, Characteristics, Difference, Efficiency of labour, Division of Labour, Capital- Meaning, Differences, Characteristics, Types, Importance, Capital Formation, Enterprise- Meaning, Characteristics, Differences and Functions
5	Nature and Structure of Markets	Markets, Types, Perfect Competition- Meaning & Characteristics, Monopoly- Meaning, Characteristics and Demand Curve, Monopolistic Competition- Meaning, Characteristics and Demand Curve, Oligopoly- Meaning, Types and Features, Monopsony- Meaning & Features
1	Elementary Theory of Demand	Meaning, Types, Demand schedule, Determinants, Law of demand, Changes in demand
2	Elasticity of Demand	Meaning, Degrees of price elasticity of demand, Factors affecting price elasticity of demand

# **Subject : Moral Science**

Name of the book: Inspiring Souls A Book of Moral Values and Life Skills

Name of the Publisher: Acevision Publisher

## **First Term**

**Months-(March-June)**

<b>Chapter no.</b>	<b>Chapter Name</b>	<b>Value Point</b>
1	The Blessed One	God Provides
2	Open Ears	Active Listening
3	Online Safety	Cyber Security

## **Second Term**

**Months-(July-September)**

4	Grab It All	Make Use of Opportunities
5	Finding Peace	Power of Meditation
8	Sunny Days	Positivity in Life

## **Third Term**

**Months-(October-February)**

9	Tick-Tock-Tick	Time Management
10	Its Only Words	Power of Words
12	Long Spoons	Sharing is Caring
14	Everyone's Race	Humility