

## Subject Wise Syllabus (Session: 2024-25) Class - X

Periodic Test		
<b>English</b>	First Flight	<b>Prose:</b> 1. A Letter to God 2. Nelson Mandela: Long Walk to Freedom <b>Poetry:</b> 1. Dust of Snow 2. Fire and Ice 3. A Tiger in the Zoo
	Footprints without Feet	1. A Triumph of Surgery 2. The Thief's Story
	Workbook	Unit 1, 2
	Grammar	1. Determiners 2. Tenses
	Writing	1 Formal letter on given situation: Letter to Editor, Complaint, Enquiry, Placing Order 2. Analytical paragraph writing on given map / charts
	Reading	1. Discursive passage 2. Case – based passage
<b>Maths</b>	<b>UNIT II: ALGEBRA: POLYNOMIALS:</b> (Ch.-2) Zeroes of a polynomial. Relationship between zeroes and coefficients of quadratic polynomials. <b>PAIR OF LINEAR EQUATIONS IN TWO VARIABLES:</b> (Ch.-3.) Pair of linear equations in two variables and graphical method of their solution, consistency/inconsistency. Algebraic conditions for number of solutions. Solution of a pair of linear equations in two variables algebraically - by substitution, by elimination. Simple situational problems. <b>REAL NUMBERS:</b> (Ch.-1.) Fundamental Theorem of Arithmetic - statements after reviewing work done earlier and after illustrating and motivating through examples. Proofs of irrationality of $\sqrt{2}$ , $\sqrt{3}$ , $\sqrt{5}$ . <b>UNIT-V: (STATISTICS and PROBABILITY): CHAPTER-13: STATISTICS:</b> Mean, median and mode of grouped data (bimodal situation to be avoided). <b>Tables: 2 to 40</b>	
<b>Science</b>	<b>Physics</b>	<b>Unit III: Natural Phenomena - Ch-10 Light:</b> Reflection of light by curved surfaces; Images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length, mirror formula (Derivation not required), magnification. Refraction; Laws of refraction, refractive index. Refraction of light by spherical lens; Image formed by spherical lenses; Lens formula (Derivation not required); Magnification. Power of a lens. <b>Practical:</b> Determination of the focal length of : (i) Concave mirror (ii) Convex lens by obtaining the image of a distant object.
	<b>Chemistry</b>	<b>Unit I: Chemical Substances – Nature and Behaviour</b> <b>Chemical Reactions:</b> Chemical equation, Balanced chemical equation, implications of a balanced chemical equation, types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, endothermic exothermic reactions, oxidation and reduction. <b>Practical:</b> 2. Performing and observe the following reactions and classify them into: (A) Combination reaction (B) Decomposition reaction (C) Displacement reaction (D) Double displacement reaction (i) Action of water on quick lime (ii) Action of heat on ferrous sulphate crystals (iii) Iron nails kept in copper sulphate solution (iv) Reaction between sodium sulphate and barium chloride solutions.
	<b>Biology</b>	<b>Unit: World of Living: Life Processes:</b> Living being, Basic concept of nutrition, respiration and Basic concept of transportation in plants and animals. <b>Practical:</b> 1. To prepare a temporary mount of a leaf peel to show stomata. 2. To show experimentally that carbon dioxide is given out during respiration.

<b>Social Studies</b>	<b>Economics</b>	<b>2. Sectors of the Indian Economy:</b>
	<b>History</b>	<b>2. Nationalism in India:</b>
	<b>Geography</b>	<b>1. Resources and Development:</b>
	<b>Pol Science</b>	<b>1. Power Sharing:</b>  <b>2. Federalism:</b>
<b>Hindi</b>	<b>श्रुतलत</b>	<b>कलवुत-खणुडः-</b> 1. सूरदलस-ऊधुत तुड हू अतल डडडडडड 2. तुलसीदलस-रलड-लकुषडण-डरशुडरलड संवलद <b>गदुत-खणुडः-</b> 7. स्वडड डुरकलश-नेतलऑी कल ऑशडड
	<b>कृतलकल</b>	1. शलवडूऑन सलहलड- डलतल कल अँऑल
	<b>वुडलकरण</b>	1. रऑनल के आधलर डर वलकुड डेद
	<b>रऑनल</b>	डतुर - लेखन (औडऑलरलक एवं अनूडडऑलरलक)
<b>I.T.</b>	<b>Unit I: Communication Skills – II</b> Ch. 1.1 Various Methods of Communication (Session 1 to 3) Ch. 1.2 Provide Descriptive and specific feedback (Session 1 to 4) <b>Unit – 3</b> Basic ICT Skills Ch. 3.1 Distinguish Between Different operating System 3.2 Working with Files and Folders 3.3 Apply Basic Skill for care and maintenance of computer. <b>Unit – 9</b> Web Application and Security (Session 1 to 11)	
<b>Art &amp; Craft</b>	1. What is Colour 2. Colour Chart 3. Water Colour (pg 34 to 37)	
<b>Max. Marks : 20</b>		<b>Min. Marks : 07</b>
<b>Time : 1.30 Hours</b>		
<b>Note for Exam. : Students will bring their next day's examination books and notebooks</b>		

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Pre Mid - Term Periodic Test		
English	First Flight	<b>Prose:</b> 3. Two Stories About Flying : Part-I His First Flight, Part-II Black Aeroplane 4. From the Diary of Anne Frank <b>Poetry:</b> 4. How to Tell Wild Animals 5. The Ball Poem 6. Amanda!
	Footprints without Feet	3. The Midnight Visitor 4. A Question of Trust
	Workbook	Unit 3, 4
	Grammar	3. Modals 4. Subject Verb Concord + Periodic Test
	Writing	1. Formal letter on given situation: Letter to Editor, Complaint, Enquiry, Placing Order 2. Analytical paragraph writing on given report / line graph
	Reading	1. Discursive passage 2. Case – based passage
Maths	<b>UNIT III : GEOMETRY: TRIANGLES (Ch-6)</b> Definitions, examples, counter examples of similar triangles. 1. (Prove) If a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, the other two sides are divided in the same ratio. 2. (Motivate) If a line divides two sides of a triangle in the same ratio, the line is parallel to the third side. 3. (Motivate) If in two triangles, the corresponding angles are equal, their corresponding sides are proportional and the triangles are similar. 4. (Motivate) If the corresponding sides of two triangles are proportional, and their corresponding angles are equal and the two triangles are similar. 5. (Motivate) If one angle of a triangle is equal to one angle of another triangle and the sides including these angles are proportional, the two triangles are similar. <b>UNIT IV: TRIGONOMETRY: 1. INTRODUCTION TO TRIGONOMETRY: (Ch-8)</b> Trigonometric ratios of an acute angle of a right-angled triangle. Proof of their existence (well defined); motivate the ratios, whichever are defined at $0^\circ$ & $90^\circ$ . Values of the trigonometric ratios of $30^\circ$ , $45^\circ$ & $60^\circ$ . Relationships between the ratios. <b>2. TRIGONOMETRIC IDENTITIES:</b> Proof and applications of the identity $\sin^2 A + \cos^2 A = 1$ . Only simple identities to be given. <b>UNIT IV: TRIGONOMETRY: (Contd.): 3. HEIGHTS AND DISTANCES: (Ch-9)</b> Simple problems on heights and distances. Problems should not involve more than two right triangles. Angles of elevation / depression should be only $30^\circ$ , $45^\circ$ , $60^\circ$ . <b>Tables: 2 to 40</b>	
Science	Physics	<b>Ch-11: Human Eye and Colourful World:-</b> Functioning of a lens in human eye, defects of vision and their corrections, applications of spherical mirrors and lenses. Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life (excluding colour of the sun at sunrise and sunset). <b>Practical: 1.</b> Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result. <b>2.</b> Tracing the path of the rays of light through a glass prism.
	Chemistry	<b>Acids, bases and salts:</b> Their definitions in terms of furnishing of $H^+$ and $OH^-$ ions, General properties, examples and uses, neutralization, concept of pH scale (Definition relating to logarithm not required), importance of pH in everyday life; preparation and uses of Sodium Hydroxide, Bleaching powder, Baking soda, Washing soda and Plaster of Paris. <b>Practical: A.</b> Finding the pH of the following samples by using pH paper/ universal indicator: (i) Dilute Hydrochloric Acid (ii) Dilute NaOH solution (iii) Dilute Ethanoic Acid solution (iv) Lemon juice (v) Water (vi) Dilute Hydrogen Carbonate solution <b>B.</b> Studying the properties of acids and bases (HCl & NaOH) on the basis of their reaction with: (a) Litmus solution (Blue/Red) (b) Zinc metal (c) Solid sodium carbonate

Science	Biology	<b>Unit: World of Living: Life Processes:</b> Excretion in plants and animals. <b>Unit: World of Living: Control and co-ordination</b> in animals and plants, Tropic movements in plants; Introduction of plant hormones; Control and Co-ordination in animals; Nervous system; Voluntary, involuntary and reflex action; Chemical co-ordination: animal hormones. <b>Unit: World of living: Heredity and evolution:</b> Heredity; Mendel's contribution- Laws for inheritance of traits:
Social Studies	Economics	<b>3. Money and Credit:</b>
	History	<b>Section 2: Livelihoods, Economies and Societies:</b> <b>3. The Making of a Global World:</b> <b>(To be evaluated in the Board Examination - Subtopics:1 to 1.3 Pre Modern World to Conquest, Disease and Trade)</b> <b>Interdisciplinary project as part of multiple assessments</b> (Internally assessed for 5 marks Sub topics 2 to 4.4 The nineteenth century (1815-1914) to end of Bretton Woods & the beginning of "Globalisation." Sub Topic 3. The Inter war economy, Sub Topic 4. Rebuilding of world economy ; the post war era. <b>4. The Age of Industrialization:</b> <b>(To be assessed as part of Periodic Assessments only)</b>
	Geography	<b>3. Water Resources:</b>  <b>4. Agriculture:</b>
Teaching Aids : A/V Room	Pol Science	<b>4. Gender, Religion and Caste:</b>
	Hindi	<b>काव्य-खण्ड:-</b> 3. जयशंकर प्रसाद – आत्मकथ्य 4. सूर्यकांत त्रिपाठी 'निराला' – उत्साह, अट नहीं रही है <b>गद्य-खण्ड:-</b> 8. रामवृक्ष बेनौपुरी-बालगोबिन भगत, 9. यशपाल-लखनवी अंदाज़
	शिक्षित	2. मधु कांकरिया – साना-साना हाथ जोड़ि .....
	कृतिका	वाच्य, पद – परिचय

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	<b>रचना</b>	विज्ञापन – लेखन , संदेश – लेखन
<b>I.T.</b>	<b>Unit I: Communication Skills II</b> : Ch. 1.3 Measures to Overcomes Barriers in Communication (Session 1 and 2) <b>Unit 2: Self management Skills:</b> Ch. 2.1 Stress Management Techniques (Session 1 to 4) Ch. 2.2 Ability to work independently (Session 1 to 3) <b>Unit 6 : Digital Documentation (Advanced)</b> (Session 1 to 5)	
<b>Art &amp; Craft</b>	4. Colour Mixing      5. Colour Chart (Diff. tones)      6. Colour and design 7. Intensities in colour      8. Landscape (pg 38 to 42)	
<b>Max. Marks : 20</b>		
<b>Min. Marks : 07</b>		
<b>Time : 1.30 Hours</b>		
<b>Mid Term Periodic Test + (Periodic Test + Pre- Mid Term)</b>		
<b>English</b>	First Flight	<b>Prose:</b> 5. Glimpses of India- I: A Baker from Goa, II: Coorg, III: Tea from Assam <b>Poetry:</b> 7. The Trees
	Footprints without Feet	5. Footprints Without Feet 6. The Making of a Scientist
	Workbook	Unit - 7
	Grammar	5. Reported speech
	Writing	1. Formal letter on given situation: Letter to Editor, Complaint, Enquiry, Placing Order 2. Analytical paragraph writing (all types)
	Reading	1. Discursive passage 2. Case – based passage
<b>Maths</b>	<b>UNIT VII : MENSURATION: AREAS RELATED TO CIRCLES: (Ch-11)</b> Area of sectors and segments of a circle. Problems based on areas and perimeter/circumference of the above said plane figures. (In calculating area of segment of a circle, problems should be restricted to central angle of 60°, 90° & 120° only.) <b>5. ARITHMETIC PROGRESSIONS (Ch-5)</b> Motivation for studying Arithmetic Progression. Derivation of the n <sup>th</sup> term and sum of the first n terms of A.P. and their application in solving daily life problems. <b>UNIT VI: COORDINATE GEOMETRY: Ch-7:</b> Review: The concepts of coordinate geometry, graphs of linear equations. Distance formula, section formula (internal division). <b>Tables: Up to 40</b>	
<b>Science</b>	<b>Physics</b>	<b>Unit IV: Effects of Current – Ch – 12: Electricity:</b> Electric current, potential difference and electric current. Ohm's law; Resistance, Resistivity, Factors on which the resistance of a conductor depends. Series combination of resistors, parallel combination of resistors and its applications in daily life. Heating effect of electric current and its applications in daily life. Electric power, Interrelation between P, V, I and R. <b>Practical:</b> Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plotting a graph between V and I.
	<b>Chemistry</b>	<b>Metals and nonmetals:</b> Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds; Basic metallurgical processes; Corrosion and its prevention. <b>Carbon compounds:</b> Covalent bonding in carbon compounds. Versatile nature of carbon. Homologous series. <b>Practical:</b> Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions: (1) ZnSO <sub>4</sub> (aq), (2) FeSO <sub>4</sub> (aq), (3) CuSO <sub>4</sub> (aq), (4) Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> (aq) Arrange Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result.

	<b>Biology</b>	<b>Unit: World of living: Heredity and evolution:</b> Sex determination: brief Introduction; <b>Unit: Natural resources: Our environment:</b> Eco-system, Environmental problems, Ozone depletion, waste production and their solutions. Biodegradable and non-biodegradable substances.
<b>Social Studies</b>	<b>Economics</b>	<b>4. Globalization and the Indian Economy:</b> <b>To be evaluated in the Board Examination :</b> <input type="checkbox"/> What is globalization? <input type="checkbox"/> Factors that have enabled Globalisation <b>Interdisciplinary project as part of multiple assessments</b> (Internally assessed of 5 marks) <input type="checkbox"/> Production across the countries <input type="checkbox"/> Chinese toys in India <input type="checkbox"/> World Trade Organisation <input type="checkbox"/> The Struggle for a fair Globalisation
	<b>History</b>	<b>Section 3: Everyday Life, Culture and Politics:</b> <b>5. Print Culture and the Modern World</b>
	<b>Geography</b>	<b>5. Minerals and Energy Resources</b>  <b>6. Manufacturing Industries:</b>
	<b>Pol Science</b>	<b>4. Political Parties</b>
<b>Teaching Aids :</b> A/V Room		
	<b>Hindi</b>	<b>काव्य-खण्ड:- 5. नागार्जुन – यह दंतुरित मुसकान , फसल</b> 10. मन्नू भण्डारी-एक कहानी यह भी
	<b>क्षितिज</b>	3. अज्ञेय – मैं क्यों लिखता हूँ ?
	<b>कृतिका</b>	अलंकार –शब्दालंकार (श्लेष), अर्थालंकार (उत्प्रेक्षा, अतिशयोक्ति, मानवीकरण)
	<b>व्याकरण</b>	अनुच्छेद-लेखन, स्ववृत्त – लेखन, औपचारिक ई-मेल – लेखन,
	<b>रचना</b>	

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		अपठित गद्यांश एवं काव्यांश
<b>I.T.</b>	<b>Unit I: Communication Skills - II:</b> Ch 1.4 Principles of Communication (Session 1 & 2) <b>Unit-4 Entrepreneurial Skills – II</b> 4.1 – Characteristics of Successful Entrepreneur (Session 1 to 5) <b>Unit 7 – Electronic Spread Sheet (Advanced)</b> (Session 1 to 4)	
<b>Art &amp; Craft</b>	9. Light and Shade (Chart with strong & Light contrast of light & Shade) 10. Poster Colour (pg 45 to 47)	
<b>Max. Marks : 60</b> <b>Min. Marks :20</b> <b>Time : 3.00 Hours</b>		
<b>Note for Exam. : Students will bring their next day's examination books and notebooks</b>		
<b>Post – Mid Term Periodic Test + (Periodic Test + Pre – Mid Term + Mid Terms)</b>		
<b>English</b>	First Flight	Prose: 6. Mijbil the Otter 7. Madam Rides The Bus 8. The Sermon at Benares Drama: 9. The Proposal Poetry: 8. Fog 9. The Tale of Custard the Dragon 10. For Anne Gregory
	Footprints without Feet	7. The Necklace 8. Bholi Drama: 9. The Book that Saved the Earth
	Workbook	Unit 8, 9,10, 11
	Grammar	6. Exercise on (i) Gap Filling (ii) Editing (iii) Transformation
	Writing	1 Formal letter on given situation 2. Analytical Paragraph writing
	Reading	1. Discursive passage 2. Case – based passage
<b>Maths</b>	<b>UNIT II: ALGEBRA (Contd.): 5. QUADRATIC EQUATIONS: (Ch-4)</b> Standard form of a quadratic equation $ax^2 + bx + c = 0, (a \neq 0)$ . Solutions of the quadratic equations (only real roots) by factorization, and by using quadratic formula. Relationship between discriminant and nature of roots. Situational Problems based on quadratic equations related to day to day activities to be incorporated. <b>UNIT VII: SURFACE AREAS AND VOLUMES: (Ch-12)</b> Surface areas and volumes of combinations of any two of the following: cubes, cuboids, spheres, hemispheres and right circular cylinders/cones. <b>(UNIT V: STATISTICS AND PROBABILITY: 4. PROBABILITY: (Ch-14)</b> Classical definition of probability. Simple problems on finding the probability of an event. <b>UNIT III: GEOMETRY (Contd.): 1. CIRCLES (Ch-10):</b> Tangents to a circle, point of contact. (Prove) The tangent at any point of a circle is perpendicular to the radius through the point of contact. 2. (Prove) The lengths of tangents drawn from an external point to circle are equal. <b>Tables: Up to 40</b>	
<b>Science</b>	<b>Physics</b>	<b>Ch-13 Magnetic Effects of Electric Current:</b> Magnetic field, field lines, field due to a current carrying conductor, field due to current carrying coil or solenoid; Force on current carrying conductor, Fleming's Left Hand Rule, Direct current. Alternating current: frequency of AC. Advantage of AC over DC. Domestic electric circuits. <b>Practical:</b> Determination of the equivalent resistance of two resistors when connected in series and parallel.
	<b>Chemistry</b>	<b>Carbon compounds:</b> Nomenclature of carbon compounds containing functional groups (halogens, alcohol, ketones, aldehydes, alkanes and alkynes), difference between saturated hydrocarbons and unsaturated hydrocarbons. Chemical properties of carbon compounds (combustion, oxidation, addition and substitution reaction). Ethanol and Ethanoic acid (only properties and uses), soaps and detergents. <b>Practical:</b> 1. Study of the following properties of acetic acid (ethanoic acid):

	<b>Chemistry</b>	i) Odour ii) solubility in water iii) effect on litmus iv) reaction with Sodium Hydrogen Carbonate 2. Study of the comparative cleaning capacity of a sample of soap in soft and hard water.
	<b>Biology</b>	<b>Unit: World of Living: How do organisms Reproduce?</b> Reproduction in animals and plants (asexual and sexual) reproductive health-need and methods of family planning. Safe sex vs HIV / AIDS. Child bearing and women's health. <b>Practical: 1.</b> To study (a) binary fission in Amoeba and (b) budding in yeast and Hydra with the help of prepared slides. <b>2.</b> To identify the different parts of an embryo of dicot seed (Pea, gram or red kidney bean)
<b>Social Studies</b>	<b>Economics</b>	<b>1. Development</b>  <b>5. Consumer Rights (Project Work)</b>
	<b>History</b>	<b>Section 1: Events and Processes:</b> <b>1. The Rise of Nationalism in Europe:</b>
	<b>Geography</b>	<b>2. Forest and Wildlife Resources</b>  7. Lifelines of National Economy <b>Only map pointing to be evaluated in the Board Examination Interdisciplinary project as part of multiple assessments (Internally assessed for 5 marks)</b>
	<b>Pol Science</b>	<b>5. Outcomes of Democracy</b>
<b>Hindi</b>	<b>क्षितिज</b>	काव्य-खण्ड:- 6.मंगलेश डबराल-संगतकार गद्य-खण्ड:-11. यतीन्द्र मिश्र- नौबतरखाने में इबादत 12. भदंत आनंद कौसल्यायन – संस्कृति
	<b>कृतिका</b>	दोहरान + P.T. + P.M.T.P.T.+ M.T.P.T+ P.M.T.P.T.
	<b>व्याकरण रचना</b>	P.T. + P.M.T.P.T.+ M.T.P.T+ P.M.T.P.T. दोहरान-पत्र-लेखन, विज्ञापन-लेखन, अनुच्छेद-लेखन, संदेश लेखन, स्ववृत्त लेखन औपचारिक

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	ई-मेल, अपठित गद्यांश एवं काव्यांश
<b>I.T.</b>	<b>Unit I: Communication Skills II:</b> Ch. 1.5 Basic Writing Skills – (Session 1 to 8) <b>Unit – 5 Green Skills – II</b> Ch. 5.1 Demonstrate the Knowledge of Importance, Problems and Solutions Related to Sustainable Development. (Session (1 to 4) <b>Unit -8: Database management System</b> (Session 1 to 6)
<b>Art &amp; Craft</b>	11. Harmony 12. Floor Design 13. Textile Design 14. Book Cover 15. Paper Product (pg 49 to 57)

Pre- Board + (Whole Syllabus)	
<b>English</b>	<b>Revision of Whole Syllabus</b>
<b>Maths</b>	<b>Revision of Whole Syllabus</b>
<b>Science</b>	<b>Revision of Whole Syllabus</b>
<b>S.St.</b>	<b>Revision of Whole Syllabus</b>
<b>Hindi</b>	<b>Revision of Whole Syllabus</b>
<b>I.T.</b>	<b>Revision of Whole Syllabus</b>
<b>Max. Marks : 80</b>	<b>Min. Marks :27</b> <b>Time : 3.00 Hours</b>
<b>Note for Exam. : Students will bring their next day's examination books and notebooks</b>	

### Instructions:-

1. Value Education consists of Moral Values, Manners & Etiquettes.
2. Value Education will be taught by the class teacher for 10 minutes in zero period everyday.

S.NO	SUB	BOOKS NAME	PUBLISHER
1	COMP.	INFORMATION TECHNOLOGY	GOYAL PUBLICATION
2	ENG	GUIDE ENGLISH CORE - COURSE - A	NEW AGE INTERNATIONAL
3	ENG	FIRST FLIGHT	NCERT
4	ENG	FOOTPRINTS WITHOUT FEET (SUPPLEMENTARY READER)	NCERT
5	ENG	WORDS & EXPRESSIONS (WORK BOOK)	NCERT
6	HINDI	GUIDE GOLDEN HINDI - COURSE - A	NEW AGE INTERNATIONAL
7	HINDI	KRITIKA ( HINDI) - NCERT	NCERT
8	HINDI	KSHITIJ (HINDI) -NCERT	NCERT
9	MATHS	MATHEMATICS -NCERT	NCERT
10	MATHS	MATHEMATICS EXEMPLAR	NCERT
11	MATHS	MATHEMATICS LAB MANUAL	RACHANA SAGAR
12	MATHS	MATHEMATICS PRACTICAL MANUAL	RACHANA SAGAR
13	SCIENCE	SCIENCE (BIOLOGY)	S. CHAND
14	SCIENCE	SCIENCE (CHEMISTRY)	S. CHAND
15	SCIENCE	SCIENCE (PHYSICS)	S. CHAND
16	SCIENCE	SCIENCE LAB MANUAL	RACHANA SAGAR
17	SCIENCE	BIOLOGY PRACTICAL MANUAL	RACHANA SAGAR
18	SCIENCE	CHEMISTRY PRACTICAL MANUAL	RACHANA SAGAR
19	SCIENCE	PHYSICS PRACTICAL MANUAL	RACHANA SAGAR
20	SCIENCE	SCIENCE	NCERT
21	SOCIAL STUDIES	UNDERSTANDING ECONOMIC DEVPLOMENT	NCERT
22	SOCIAL STUDIES	SOCIAL SCIENCE INDIA & THE CONTEMPORARY WORLD -II	NCERT
23	SOCIAL STUDIES	SOCIAL SCIENCE CONTEMPORARY INIDA-II	NCERT
24	SOCIAL STUDIES	LAB MANUAL IN SOCIAL SCIENCE	EVERGREEN PUBLICATION (CANDID)
25	SOCIAL STUDIES	SOCIAL SCIENCE DEMOCRATIC POLITICS-II	NCERT