



**CLASS:XII**

<b>SUBJECT</b>	<b>SYLLABUS</b>
<b>ENGLISH</b> (Theory - 80 marks)	<b>Reading Skills-</b> Comprehension passage <b>Writing Skills-</b> Notice, Classified Advertisements, Box Advertisements, Article, Letters- Job Application, Editor <b>Literature-</b> <ul style="list-style-type: none"><li>● <b>Flamingo: Prose-</b> The Last Lesson, Lost Spring, Deep Water, The Rattrap</li><li>● <b>Poem-</b> My Mother at Sixty Six, Aunt Jennifer's Tigers, Keeping Quiet</li><li>● <b>Vistas:</b> The Third Level, Should Wizard Hit Mommy?, The Enemy</li></ul>
<b>MATHEMATICS</b> (Theory- 80 marks)	<ul style="list-style-type: none"><li>● Chapter 2: Inverse Trigonometric Functions</li><li>● Chapter 3: Matrices</li><li>● Chapter 4: Determinants</li><li>● Chapter 5: Continuity and Differentiability</li><li>● Chapter 6: Applications of Derivatives</li><li>● Chapter 7: Integrals</li><li>● Chapter 8: Applications of the Integrals</li><li>● Chapter 9: Differential Equations</li></ul>
<b>PHYSICS</b> (Theory- 70 marks)	<ul style="list-style-type: none"><li>● Chapter 1: Electric Charges and Fields</li><li>● Chapter 2: Electric Potential and Capacitance</li><li>● Chapter 3: Current Electricity</li><li>● Chapter 4: Moving Charges and Magnetism</li><li>● Chapter 5: Magnetism and Matter</li><li>● Chapter 6: Electromagnetic induction</li><li>● Chapter 7: Alternating Current</li></ul> (Chapters as per NCERT Volume 1)
<b>CHEMISTRY</b> (Theory- 70 marks)	<ul style="list-style-type: none"><li>● Unit 5: Surface chemistry</li><li>● Unit 7: The p-Block Elements</li><li>● Unit 10: Haloalkanes and Haloarenes</li><li>● Unit 11: Alcohols, Phenols and Ethers</li><li>● Unit 12: Aldehydes, Ketones and Carboxylic Acids</li><li>● Unit 13: Amines</li><li>● Unit 14: Biomolecules</li></ul>
<b>COMPUTER SCIENCE</b> (Theory- 70 marks)	<ul style="list-style-type: none"><li>● Chapter 1: Review of Python Basics</li><li>● Chapter 2: Functions</li><li>● Chapter 3: Using Python Libraries</li><li>● Chapter 4: DataFile Handling</li></ul>

	<ul style="list-style-type: none"> <li>● Chapter 8: Computer Networks</li> <li>● Chapter 12: More about SQL</li> </ul>
BIOLOGY (Theory- 70 marks)	<ul style="list-style-type: none"> <li>● Ch 2 Sexual Reproduction in Flowering Plants</li> <li>● Ch 3 Human Reproduction</li> <li>● Ch 4 Reproductive Health</li> <li>● Ch 5 Principles of Inheritance</li> <li>● Ch 6 Molecular basis of Inheritance</li> </ul>
ENGINEERING GRAPHICS (Theory- 70 marks)	<p>Unit I: Isometric Projection of Solids (25 MARKS)</p> <ul style="list-style-type: none"> <li>● (i) Construction of isometric scale showing main divisions of 10mm and smaller divisions of 1mm, also showing the leading angles. Drawing helping view/s such as triangles, pentagon, hexagon, etc., using isometric scale.</li> <li>● (ii) Isometric projection (drawn to isometric scale) of solids such as cube; regular prisms and pyramids (triangular, square, pentagonal and hexagonal); cone; cylinder; sphere; hemisphere. The axis and the base side of the solid should be either perpendicular to HP / VP or parallel to HP and VP. (Indicate the direction of viewing).</li> <li>● (iii) Combination of any two above mentioned solids keeping the base side parallel or perpendicular to HP/VP and placed centrally together (Axis of both the solids should not be given parallel to HP).</li> </ul> <p>Note: Hidden lines are not required in isometric projection.</p> <p>Unit II: Machine Drawing (as per SP46: 2003) (45 MARKS)</p> <p>A. Drawing of machine parts</p> <ul style="list-style-type: none"> <li>● (i) Drawing to full size scale with instruments. (Internal choice will be given between any two of the following). Introduction of threads: Standard profiles of screw threads - Square, Knuckle, B.S.W., Metric (external and internal); Bolts - Square head, Hexagonal head; Nuts - Square head, Hexagonal head; Plain washer; combination of nut and bolt with or without washer for assembling two parts together.</li> <li>● (ii) Free-hand sketches (Internal choice will be given between any two of the following). Conventional representation of external and internal threads; Types of studs - Plain stud, Square-neck stud, Collar stud; Types of rivets - Snap head, Pan head (without tapered neck), Flat head, 60° countersunk flat head.</li> </ul> <p>B. Assembly drawings and Dis-Assembly drawings (Internal choice will be given between an Assembly drawing and a Dis-Assembly drawing).</p> <ol style="list-style-type: none"> <li>1. Bearings       <ol style="list-style-type: none"> <li>(i) Open-Bearing</li> <li>(ii) Bush- Bearing</li> </ol> </li> <li>2. Rod-Joints       <ol style="list-style-type: none"> <li>(i) Cotter-joints for round-rods (Sleeve and cotter joint)</li> <li>(ii) Cotter-joints for square rods (Gib and cotter-joint)</li> </ol> </li> <li>3. Tie-rod and Pipe-joint</li> </ol>

	<p>(i) Turnbuckle (ii) Flange pipe joint</p> <p>Note:</p> <ol style="list-style-type: none"> <li>1. In all Assembly drawings, half sectional front view will be asked. Side/End view or Top View/Plan will be drawn without section.</li> <li>2. In all Dis-assembly drawings, only two orthographic views (one of the two views may be half in section or full in section) will be asked of any two parts only.</li> <li>3. (a) In all sectional views, hidden lines/ edges are not to be shown. (b) In all full views, hidden/edges are to be shown.</li> </ol>
<p><b>ACCOUNTANCY</b> (Theory- 80 marks)</p>	<p style="text-align: center;"><b><u>PART - A</u></b> <b><u>ACCOUNTING FOR NOT-FOR-PROFIT ORGANIZATIONS, PARTNERSHIP FIRMS AND COMPANIES</u></b></p> <ul style="list-style-type: none"> <li>● ACCOUNTING FOR NOT FOR PROFIT ORGANISATIONS</li> <li>● ACCOUNTING FOR PARTNERSHIP FIRMS- FUNDAMENTALS</li> <li>● GOODWILL- NATURE AND VALUATION</li> <li>● CHANGE IN PROFIT SHARING RATIO AMONG THE EXISTING PARTNERS</li> <li>● ADMISSION OF A PARTNER</li> <li>● RETIREMENT OF A PARTNER</li> <li>● DEATH OF A PARTNER</li> <li>● DISSOLUTION OF A PARTNERSHIP FIRM</li> <li>● COMPANY ACCOUNTS- ACCOUNTING FOR SHARE CAPITAL</li> </ul> <p style="text-align: center;"><b><u>PART - B</u></b> <b><u>FINANCIAL STATEMENT ANALYSIS</u></b></p> <ul style="list-style-type: none"> <li>● FINANCIAL STATEMENTS OF A COMPANY</li> <li>● COMPARATIVE AND COMMON SIZE STATEMENTS</li> </ul>
<p><b>BUSINESS STUDIES</b> (Theory- 80 marks)</p>	<p>Part A: Principles and Functions of Management</p> <ol style="list-style-type: none"> <li>1. Nature and Significance of Management</li> <li>2. Principles of Management</li> <li>3. Business Environment</li> <li>4. Planning</li> <li>5. Organizing</li> <li>6. Staffing</li> <li>7. Controlling</li> </ol> <p>Part B: Business Finance and Marketing</p> <ol style="list-style-type: none"> <li>8. Marketing Management</li> <li>9. Consumer Protection</li> </ol>
<p><b>ECONOMICS</b> (Theory- 80 marks)</p>	<p>A) INDIAN ECONOMICS</p> <ul style="list-style-type: none"> <li>● Chapter- 1 Indian economy on the eve of independence</li> <li>● Chapter- 2 Indian economy (1950-90)</li> <li>● Chapter- 3 Economic reforms</li> <li>● Chapter- 4 Poverty</li> <li>● Chapter- 5 Human capital formation</li> <li>● Chapter- 6 Rural development</li> </ul>

	<p>B) MACRO ECONOMICS</p> <ul style="list-style-type: none"> <li>● Chapter - Money and banking( excluding bank rate,repo rate,reverse repo rate, crr,slr ,open market operations, margin requirements)</li> <li>● Chapter- Government budget</li> <li>● Chapter- Balance of payment and and foreign exchange rate (excluding BOP deficit)</li> </ul>
HISTORY (Theory- 80 marks)	<ul style="list-style-type: none"> <li>● Theme 1-Bricks ,beads and bones</li> <li>● Theme 2-Kings, farmers and towns</li> <li>● Theme 3-Kinship, caste and class</li> <li>● Theme 4-Thinkers, beliefs and buildings</li> <li>● Theme 5-Bhakti-Sufi traditions</li> <li>● Theme 6-An Imperial capital : Vijayanagara</li> <li>● Theme 7-Kings and chronicles</li> <li>● Theme 8-Colonialism and the countryside (Half) page -257 to 274</li> </ul>
POLITICAL SCIENCE (Theory- 80 marks)	<p>Book Contemporary ....</p> <ol style="list-style-type: none"> <li>1. Cold war</li> <li>2. End of bipolarity</li> <li>3. International Organisations</li> <li>4. Contemporary South Asia</li> </ol> <p>Book Politics in India.....</p> <ol style="list-style-type: none"> <li>1. Challenge of nation building</li> <li>2. Era of one party dominance</li> <li>3. Party system in India</li> <li>4. External Relations</li> </ol>
GEOGRAPHY (Theory- 70 marks)	<p><b><u>Book: Fundamentals of Human Geography</u></b></p> <ol style="list-style-type: none"> <li>1. Human Geography Nature and Scope</li> <li>2. The World Population Distribution, Density and Growth</li> <li>3. Population Composition</li> <li>4. Human Development</li> <li>5. Primary Activities</li> <li>6. Tertiary and Quaternary Activities</li> <li>7. Human Settlements</li> </ol> <p><b><u>Book: India: People and Economy</u></b></p> <ol style="list-style-type: none"> <li>1. Population: Distribution, Density, Growth and Composition</li> <li>2. Migration: Types, Causes and Consequences</li> <li>3. Human Development</li> <li>4. Human Settlements</li> <li>5. Water Resources</li> </ol>
PSYCHOLOGY (Theory- 70 marks)	<ul style="list-style-type: none"> <li>● Chapter 1 - Variations in Psychological Attributes</li> <li>● Chapter 2 - Self and Personality</li> <li>● Chapter 3 - Meeting Life Challenges</li> <li>● Chapter 4 - Psychological Disorders</li> <li>● Chapter 5 - Therapeutic Approaches</li> </ul>
INFORMATICS	<ul style="list-style-type: none"> <li>● Unit 1 - Data handling using Pandas-I</li> <li>● Unit 2 - Data handling using Pandas-II</li> </ul>

<b>PRACTICES</b> (Theory- 70 marks)	<ul style="list-style-type: none"> <li>● Unit 3 - Data Visualisation</li> <li>● Unit 4 - Database Query using SQL</li> <li>● Unit 5 - Functions of SQL-Math,Text, Date and Time</li> <li>● Unit 6 - Operations on relations - Union, Intersection, Minus, Cartesian product, Joins</li> </ul>
<b>PAINTING</b> (Theory- 30 marks)	<p><b>Practical</b> <span style="float: right;"><b>50</b></span></p> <p>* Study of object with Drapery, Figurative Composition, and Nature Study.          Water Colour/ Poster Colour /Oil pastel</p> <p><b>Theory</b> <span style="float: right;"><b>30</b></span></p> <ul style="list-style-type: none"> <li>● Introduction to the Bengal School of Painting,</li> <li>● Study of the Paintings of Bengal school</li> <li>● Contribution of Indian Artists in the Struggle for National Freedom Movement.</li> <li>● Evolution of the National Flag.</li> <li>● Modern Trends in Indian Art.</li> <li>● Paintings of the Contemporary (Modern) Indian Artists.</li> <li>● Graphic Prints of the Contemporary (Modern) Indian Artists.</li> <li>● Sculptures of the Contemporary (Modern) Indian Artists.</li> </ul> <p><b>Submission of portfolio</b> <span style="float: right;"><b>20</b></span></p> <p>+Sketching</p>
<b>PHYSICAL EDUCATION</b> (Theory- 70 marks)	<ul style="list-style-type: none"> <li>● Unit-1 Planning in Sports</li> <li>● Unit-2 Sports and Nutrition</li> <li>● Unit-3 Yoga and Lifestyle</li> <li>● Unit-4 Physical Education and Sports for CWSN</li> <li>● Unit-5 Children and Women in Sports</li> <li>● Unit-6 Test and Measurement in Sports</li> </ul>