

# CLASS XI(SESSION 2022-23) ANNUAL EXAMINATION SYLLABUS

SL NO	SUBJECT	SYLLABUS
1	ENGLISH CORE	<p><b>1. Reading Comprehension:</b></p> <p>a) Unseen passage (factual, descriptive or literary)</p> <p>b) Case Based Unseen Passage</p> <p>c) Note-Making and Summary</p> <p><b>2. Grammar:</b> Tenses, clauses, transformation of sentences (simple, compound, complex; assertive, exclamatory, affirmative, negative, interrogative) Re-ordering of sentences.</p> <p><b>3. Writing Skills :</b> Poster, classified advertisement, speech-writing and debate-writing.</p> <p><b>4. Literature:</b></p> <p style="padding-left: 40px;"><b>A. Hornbill:</b></p> <ul style="list-style-type: none"> <li>•The Portrait of a Lady (Prose)</li> <li>•A Photograph (Poem)</li> <li>•“We’re Not Afraid to Die... if we can all be together (Prose)</li> <li>•Discovering Tut: the Saga Continues (Article)</li> <li>•The Laburnum Top (Poem)</li> <li>• The Voice of the Rain (Poem)</li> <li>•Childhood (Poem)</li> <li>•The Adventure (Prose)</li> <li>•Silk Road (Prose)</li> <li>•Father to Son (Poem)</li> </ul> <p style="padding-left: 40px;"><b>B. Snapshots:</b></p> <ul style="list-style-type: none"> <li>• The Summer of the Beautiful White Horse (Prose)</li> <li>• The Address (Prose)</li> <li>• Mother’s Day (Play)</li> <li>• Birth ( Prose)</li> <li>• The Tale of Melon City (Poem)</li> </ul>

2	BENGALI	<p>1.Comprehension</p> <p>2.Grammar- a)Karak bibhakti b)Sabdabhandar c)Transformation of Sentences</p> <p>3.Composition -a)Report Writing b) Summary Writing</p> <p>4.Prose- a)Galileo b)Dakater Ma c)Bishal Danawala Ek Thurthure Buro</p> <p>5.Poem- a)Nun b)Barir kache Arshinagar c)Sikshar Circus</p> <p>6.Guru-1,2</p>
3	HINDI	<p>अपठित गद्यांश, अपठित पद्यांश, अभिव्यक्ति और माध्यम -(1,2,9,10,14,15,16 ), रचनात्मक लेखन, औपचारिक पत्र लेखन वितान (1,2,4), आरोह -गद्य: पाठ(1,2,4,5,7,8,9), पद्य:पाठ(1-i;2-i,5,6,7,8,9,10)</p>
4	PHYSICAL EDUCATION	<p>Changing trends and career in PE, Olympic value education, PE &amp; sports for CWSN, Yoga, Test, measurements and evaluation, Anatomy, physiology and kinesiology in sports, psychology and sports and Training and doping in sports.</p>

5	PHYSICS	<ol style="list-style-type: none"> <li>1. Kinematics : <ol style="list-style-type: none"> <li>a) Motion in a straight line.</li> <li>b) Motion in a plane</li> </ol> </li> <li>2. Laws of Motion</li> <li>3. Work, energy and power</li> <li>4. Motion of System of Particles and Rigid body</li> <li>5. Gravitation</li> <li>6. Properties of bulk matter <ol style="list-style-type: none"> <li>a. Mechanical properties of solid.</li> <li>b. Thermal properties of matter.</li> </ol> </li> <li>7. Thermodynamics</li> <li>8. Behaviour of perfect gases and Kinetic theory of gases.</li> <li>9. Oscillations and waves</li> </ol>
	CHEMISTRY	<p>Volume I</p> <ol style="list-style-type: none"> <li>1. Some basic concepts of Chemistry (Only Mole Concept, Stoichiometry and Concentrations)</li> <li>2. Structure of Atom (From Bohr's Theory till end)</li> <li>3. Classification of Elements and Periodicity in properties</li> <li>4. Chemical Bonding and Molecular Structure</li> <li>6. Thermodynamics</li> <li>7. Equilibrium (excluding Salt Hydrolysis)</li> </ol> <p>Volume II</p> <ol style="list-style-type: none"> <li>1. Redox Reactions (Oxidation States and Balancing by Ion Electron Method)</li> <li>5. Organic Chemistry - Some basic principles and techniques (excluding Quantitative estimations)</li> <li>6. Hydrocarbons ( Alkane except Conformations, Alkene and Alkyne; Aromatic - only preparation and reactions)</li> </ol>
7	MATHEMATICS	<p>Relation and function, Trigonometry(upto submultiple angle), Binomial theorem, circle, limits, Derivatives, Conic section(parabola, ellipse, hyperbola), Probability.</p>

8	BIOLOGY	<ol style="list-style-type: none"> <li>1) Chapter-1: The Living World</li> <li>2) Chapter-2: Biological Classification</li> <li>3) Chapter-3: Plant Kingdom</li> <li>4) Chapter-4: Animal Kingdom</li> <li>5) Chapter-5: Morphology of Flowering Plants</li> <li>6) Chapter-6: Anatomy of Flowering Plants</li> <li>7) Chapter-7: Structural Organisation in Animals</li> <li>8) Chapter-8: Cell-The Unit of Life</li> <li>9) Chapter-9: Biomolecules</li> <li>10) Chapter-10: Cell Cycle and Cell Division</li> <li>11) Chapter-13: Photosynthesis in Higher Plants</li> <li>12) Chapter-14: Respiration in Plants</li> <li>13) Chapter-15: Plant - Growth and Development</li> <li>14) Chapter-17: Breathing and Exchange of Gases</li> <li>15) Chapter-18: Body Fluids and Circulation</li> <li>16) Chapter-19: Excretory Products and their Elimination</li> <li>17) Chapter-20: Locomotion and Movement</li> <li>18) Chapter-21: Neural Control and Coordination</li> <li>19) Chapter-22: Chemical Coordination and Integration</li> </ol>
9	BIOTECHNOLOGY	<p style="text-align: center;">Unit II-Molecules of life</p> <p>Chapter 1: Biomolecules the Building Blocks (up to page 24 2.1.6.1.1)</p> <p>Chapter 2: Macromolecule structure and function.</p> <p style="text-align: center;">Unit -III Genetics and Molecular Biology</p> <p>Chapter 1: Concepts of Genetics (upto sex determination 3.1.6)</p> <p>Chapter 2 Genes and Genomes (upto mutations)</p> <p style="text-align: center;">Unit-IV-Cell &amp; Organisms</p> <p>Chapter 1: Cell structure and components and organization of life.</p> <p>Chapter 2: Cell growth and development up to immune response in animals</p> <p>Steps of Recombinant DNA technology.</p>
10	COMPUTER SCIENCE	<p>Boolean Logic</p> <p>Number System</p> <p>Python Fundamentals</p> <p>Data Handling</p> <p>Flow of Control</p> <p>String, List, Tuple and Dictionary</p> <p>Society, Law and Ethics</p>

11	ACCOUNTANCY	1) Fundamentals, Conversions 2) Journals, Adjustment Entries 3) Cash Book 4) B.R.S 5) RECTIFICATIONS 6) DEPRECIATION 7) ACCOUNTING EQUATION (excl. B. Sheet) 8) FINAL ACCOUNTS (with adjustments)
12	BUSINESS STUDIES	Unit 1: Nature and Purpose of Business Unit 2: Forms of Business Organization Unit 4: Business Services Unit 7: Sources of Business Finance Unit 8: Small Business and Enterprises Unit 9: Internal Trade Unit 10: International Business
13	ECONOMICS	<b>MICROECONOMICS –</b> 1.- Introduction to Microeconomics 2- Consumer Behaviour and Demand 3- Producer Behaviour and Supply 4- Forms of Market and Price Determination under Perfect Competition <b>STATISTICS-</b> 1- Basic Concepts of Statistics 2- Diagrammatic Representation -( Bar Graph, Pie Chart, Ogive, Histogram and Frequency Polygon) 3- Measures of Central Tendency (Mean, Median, Mode) 4- Correlation (using Actual Mean and Assumed Mean methods, Rank Correlation) 5- Index Number (Price Index through Simple Aggregative method, Simple Average of Price Relative method, Laspeyres, Paasche's, Fischer's methods, Cost of Living Price Index/ Consumer Price Index using Aggregative Expenditure method and Family Budget method)
14	ENTREPRENEURSHIP	UNIT 1 : ENTREPRENEURSHIP: CONCEPT & FUNCTIONS UNIT 2 : AN ENTREPRENEUR UNIT 3 : ENTREPRENEURIAL JOURNEY UNIT 4 : ENTREPRENEURSHIP AS INNOVATION & PROBLEM SOLVING UNIT 5 : CONCEPT OF MARKET UNIT 6 : BUSINESS FINANCE & ARITHMETIC UNIT 7 : RESOURCE MOBILIZATION

15	COST ACCOUNTING	<p><b>Section A : Employability Skills</b>  Unit 1 : Communication Skills  Unit 2 : Self Management Skills  Unit 3 : Information and Communication Technology Skills  Unit 4 : Entrepreneurship Skills  Unit 5: Green Skills</p> <p><b>Section B</b>  Unit 1. Introduction to cost  Unit 2 Direct Material  Unit 3 Direct Labour and Direct Expense  Unit 4 and Unit 5 Overhead.</p>
16	INFORMATICS PRACTICES	<p>UNIT 2: PYTHON PROGRAMMING  UNIT 3: DATABASE CONCEPTS AND THE STRUCTURED QUERY LANGUAGE  UNIT 4: INTRODUCTION TO EMERGING TRENDS</p>
17	APPLIED MATHEMATICS	<p>APPLICATION OF LOG, TIME AND WORK, TIME AND DISTANCE, MENSURATION, PROBABILITY, DESCRIPTIVE STATISTICS (QUARTILES, PERCENTILES, SPEARMAN RANK COEFFICIENT, SKEWNESS, KURTOSIS, SPEARMAN, BOWLEYS SKEWNESS COEFFICIENT), FINANCIAL MATHS (INTEREST AND INTEREST RATES, SIMPLE AND COMPOUND INTEREST, EFFECTIVE RATE OF INTEREST, PRESENT VALUE, FUTURE VALUE, ANNUITIES, TAXATION) , DERIVATIVES, PARABOLA, CURCLES</p>
18	FMM	<p><b>Section A : Employability Skills</b>  Unit 1 : Communication Skills  Unit 2 : Self Management Skills  Unit 3 : Information and Communication Technology Skills  Unit 4 : Entrepreneurship Skills  Unit 5: Green Skills</p> <p><b>Section B: Subject Skills</b>  Primary &amp; Secondary Markets  Mutual Funds Products &amp; Features  ETFs, Debt &amp; Liquid Funds  Taxation &amp; Regulation  Quantitative evaluation of Mutual Fund Schemes</p>

19	BANKING	<p><b>Section A : Employability Skills</b>  Unit 1 : Communication Skills  Unit 2 : Self Management Skills  Unit 3 : Information and Communication Technology Skills  Unit 4 : Entrepreneurship Skills  Unit 5: Green Skills</p> <p><b>Section B: Subject Skills</b>  Introduction to Banking  Basic functions of a Banker  Banker &amp; Customer  Employment of Bank Funds  Laws relating to Negotiable Instruments</p>
20	POLITICAL SCIENCE	<p>The Making of Constitution : Why and How  Fundamental Rights and Directive Principle  Election and Representation  Executive  Legislature  Judiciary  John Stuart Mill's Idea on Liberty</p>
21	HISTORY	<p><b>Section I : EARLY SOCIETIES</b>  Theme 2: Writing and City Life</p> <p><b>Section II : EMPIRES</b>  Theme 3: An Empire Across Three Continents  Theme 5: Nomadic Empires</p> <p><b>Section III: CHANGING TRADITIONS</b>  Theme 6: The Three Orders  Theme 7: Changing Cultural Traditions</p> <p><b>Section IV: TOWARDS MODERNISATION</b>  Theme 10 : Displacing Indigenous Peoples  Theme 11 : Paths to Modernisation</p>
22	SOCIOLOGY	<p>SOCIOLOGY AND SOCIETY  TERMS CONCEPTS AND THEIR USES IN SOCIOLOGY  UNDERSTANDING SOCIAL INSTITUTIONS  CULTURE AND SOCIALISATION  SOCIAL CHANGE AND SOCIAL ORDER IN RURAL URBAN INDIA  INTRODUCING WESTERN SOCIOLOGISTS  INDIAN SOCIOLOGISTS</p>

23	GEOGRAPHY	<p>Book :FUNDAMENTALS OF HUMAN GEOGRAPHY</p> <p>Lesson: 1)Geography As a Discipline  2)The Origin &amp; the Evolution Of the Earth  3)Interior Of the Earth  4)Distribution OfOceans &amp; Continents  5)Minerals &amp; Rocks  8)Compostion &amp; Structure Of the Atmosphere  9)Solar Radiation: Heat Balance &amp;Temperature  10)Atmospheric Circulation &amp;Weather Systems  11)Water In the Atmosphere  12)World Climate &amp; Climate Change  13)Water(Oceans)  14)Movement a Of Ocean Water  15)Life On Earth  16)Biodiversity &amp; Conservation</p> <p>Book(INDIA PHYSICAL ENVIRONMENT</p> <p>Lesson: 1)India: Location  2)Structure &amp; Physiography  3)Drainage System  4)Climate  5)Natural Vegetation  6)Soil</p>
24	MASS MEDIA	<p>Employability Skills: Communication Skills, Self-management skills, ICT skills, Entrepreneurial skills, Green skills</p> <p>Unit1:Introduction of Mass Communication  Unit2:Evolution of the Media  Unit3:Understanding Media  Unit4:Preproduction skills</p>