RUBY PARK PUBLIC SCHOOL

# Class XI Syllabus

RUBY PARK PUBLIC SCHOOL

CBSE

Syllabus

Class XI

Session: 2025 - 26

# English

| MONTH | MONTH/ UNIT | READING | WRITING | GRAMMAR | LITERATURE |
|---|---|---|---|---|---|
| **APRIL** | 1 | Comprehension from factual and discursive passages | Poster Making | Do as directed, Tenses and usage/ gap filling exercise | The Portrait of a Lady<br>A Photograph (Poem)<br>The Summer of the Beautiful White Horse |
| **MAY** | 2 | Listening & Speaking | Classified Advertisement | Tenses and usage/ gap filling exercise Re-ordering of Sentences Transformation of Sentences | |
| **UNIT TEST 1** | | | | | |
| **JUNE** | 3 | Note Making & Summarizing | Speech and Debate | Re-ordering of sentences/ Transformation of sentences | We're Not Afraid to Die |
| **JULY** | 4 | Note Making & Summarizing | Classified Advertisement | Integrated Exercises | Discovering Tut,<br>The Laburnum Top (poem),<br>The Address,<br>The Voice of the Rain (poem) |
| **AUGUST** | 5 | ASL | Speech and Debate | Transformation of sentences | Revision |
| **BLOCK TEST I** | | | | | |

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| **SEPTEMBER** | 6 | Comprehension - Analytical Passage | Speech and Debate | Tenses Verbs Vocabulary Transformation of Sentences | Father to Son (Poem) |
| **OCTOBER** | 7 | Note-Making and Summarizing | Poster | Clauses- Nominal, Relative, Adverbial | Childhood (Poem) Mother's Day (Play) |
| **NOVEMBER** | 8 | ASL | Poster and Advertisement | Exercises on identification of clauses | Birth, The Adventure, Silk Road |
| **UNIT TEST 2** | | | | | |
| **DECEMBER** | 9 | ASL | Speech | Tenses | Silk Road, The Tale of Melon City (Poem0 |
| **JANUARY** | 10 | ASL, Note Making and Summarization, Comprehension, Case-based passages | Debate, Poster making, Advertisement | Clauses - exercises,<br>Integrated Grammar | The Tale of Melon City (contd.0 |
| **BLOCK TEST II** | | | | | |

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# Physics

| MONTH | CHAPTER | TOPICS | SUB TOPICS |
|---|---|---|---|
| **APRIL** | 1 & II | Physical world, Units and Measurement | Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. ; Significant figures. Determining the uncertainty in results, Dimensions of physical quantities, dimensional analysis and its applications |
| **APRIL** | III | Motion in a Straight line | Frame of reference. Motion in a straight line: Uniform and non-uniform motion, instantaneous velocity.<br>Uniformly accelerated motion, velocity-time, position-time graphs, and relations for uniformly accelerated motion (graphical treatment). |
| **MAY AND JUNE** | IV | Motion in a Plane | Scalar and vector quantities: Position and displacement vectors, general vectors and notation, equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors.<br>Unit vector; Resolution of a vector in a plane - rectangular components. Scalar and Vector product of vectors Motion in a plane. Cases of uniform velocity and uniform acceleration- projectile motion. Uniform circular motion |
| **JUNE** | **Revision and UT1** | | |
| **JULY** | V | Laws of Motion | Intuitive concept of force. Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion. Law of conservation of linear momentum and its applications.<br>Equilibrium of concurrent forces. Static and kinetic friction, laws of friction, rolling friction. lubrication |
| | | | Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on level circular road, vehicle on banked road). |

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| **AUGUST** | VI | Work, Energy and Power | Work done by a constant force and a variable force; kinetic energy, work energy theorem, power. Notion of potential energy, potential energy of a spring, conservative forces: non- conservative forces, Motion in a vertical circle, elastic and inelastic collisions in one and two dimensions. |
| **AUGUST** | VII | System of Particles(1) | Centre of mass of a two-particle system, momentum conversation and centre of mass motion. Centre of mass of a rigid body; centre of mass of uniform rod. |
| AUGUST | VII | System of Particles and Rotational Motion (2) | Moment of a force, torque, angular momentum, Law of conservation of angular momentum and its applications. |
| | | | Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions; moment of inertia, radius of gyration. Values of moments of inertia for simple geometrical objects (no derivation) |
| **AUGUST AND SEPTEMBER** | **REVISION AND BLOCK TEST1** | | |
| **SEPTEMBER** | VIII | Gravitation | Keplar's laws of planetary motion. The universal law of gravitation. |
| | | | Acceleration due to gravity and its variation with altitude and depth. |
| | | | Gravitational potential energy; gravitational potential. Escape velocity. Orbital velocity of a satellite. |
| **OCTOBER** | IX | Mechanical Properties of Solid | Elastic behaviour, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear, modulus of rigidity.(qualitative idea only);Poisson's Ratio; Elastic Energy |
| | | | Pressure due to a fluid column; Pascal's law and its applications (hydraulic lift and hydraulic brakes). Effect of gravity on fluid pressure |

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| **OCTOBER AND NOVEMBER** | X | Mechanical Properties of Fluid | Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow. Bernoulli's theorem and its applications. Critical Velocity |
| | | | Surface energy and surface tension, angle of con-tact, application of surface tension ideas to drops, bubbles and capillary rise.Excsee of pressure across a curved surface. |
| **NOVEMBER** | XI | Thermal Properties of matter | Heat, temperature, thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat -capacity calorimetry; change of state - latent heat. Heat transfer- conduction, convection and radiation, thermal conductivity, Qualitative ideas of blackbody radiation Wien Displacement Law,Stefan's Law |
| | **UNIT TEST -II** | | |
| **DECEMBER** | XII | Thermodynamics | Thermal equilibrium and definition of temperature (zeroth law of thermodynamics). Heat, work and internal energy. First law of thermodynamics. Second law of thermodynamics: reversible and irreversible processes. Gaseous state of matter; change of condition of gaseous state.Isotherml,adiabatic,reversible ,irreversible ,cyclic processes |
| | XIII | Kinetic Theory Of Gas | Equation of state of perfect gas, work done in compressing a gas .Kinetic theory of gases - assumptions, concept of pressure. Kinetic interpretation of temperature; rms speed of gas molecules; degrees of freedom, law of equipartition of energy (statement only) and application to specific heats of gases; concept of mean free path, Avogadro's number |
| **JANUARY** | XIV | Oscillations | Periodic motion -time period, frequency, displacement as a function of time. Periodic functions and their applications. Simple harmonic motion (S.H.M) and its equation; phase; oscillations of a loaded spring-restoring force and force constant; energy in S.H.M.-kinetic and potential energies; simple pendulum-derivation of expression for its time period;. |

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| | XV | Waves | Wave motion. Longitudinal and transverse waves, speed of travelling wave. Displacement relation for a progressive wave. Principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats. |
| **FEBRUARY** | **REVISION *AND BLOCK TEST -2*** | | |

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# Chemistry

| MONTH | UNIT | TOPIC | SUB TOPIC |
|---|---|---|---|
| **APRIL** | **I** | **Some Basic Concepts of Chemistry** | Importance and scope of chemistry, Nature of matter; Laws of chemical combination, Dalton's atomic theory: concept of elements, atoms and molecules; Atomic and molecular masses, mole concept and molar mass, percentage composition, Empirical and molecular formula; Chemical reactions, stoichiometry and calculations based on stoichiometry reactions. |
| **MAY** | **II** | **Structure of Atom** | Discovery of electrons, proton, neutron, atomic number, isotopes, isobars Thomson model, limitation, Rutherford model, limitation; Bohr's model and its limitations; Concept of shells and subshells, Dual nature of matter and light, de Broglie's relationship; Heisenberg uncertainty principle |
| **JUNE** | **UNIT TEST I** | | |
| | **II** | **Structure of Atom** | Concept of orbitals, quantum numbers, shapes of s, p and d orbitals, Rules for filling electrons in orbitals - Aufbau principle, Pauli's exclusion principle and Hund's rule, Electronic configuration of atoms, stability of half-filled and completely filled orbitals. |
| | **III** | **Classification of Elements & Periodicity in Properties** | Significance of classification, brief history of development of periodic table., Modern periodic law and the present form of periodic table, Periodic trends in properties of elements atomic radii, ionic radii, inert gas radii, Ionization enthalpy, electron gain enthalpy, electronegativity, valency., Nomenclature of elements with atomic number greater than 100 |

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| **JUNE-JULY** | | **s & p Block Elements** | Electronic configuration, atomic & Ionic radii, Ionization Enthalpy, Hydration Enthalpy and general trends in physical and chemical properties of s and p block elements across the periods and down the groups; unique behaviour of the first element in each group.<br>(This topic is included in the syllabus but will be assessed only formatively to reinforce understanding without adding to summative assessments). |
| **JULY** | **IV** | **Chemical Bonding & Molecular Structure** | Valence electrons, ionic bond, covalent bond, bond parameters, Lewis structure, Polar character of covalent bond, covalent character of ionic bond, Valence bond theory, resonance, Geometry of covalent molecules, VSEPR theory Concept of hybridization, involving s, p and d orbitals and shapes of some simple molecules, Molecular orbital theory of homonuclear, diatomic molecules (qualitative idea only), hydrogen bond |
| **AUGUST** | **V** | **Chemical Thermodynamics** | Concepts of System and types of systems, surroundings, work, heat, energy, extensive and intensive properties, state functions. First law of thermodynamics -internal energy and enthalpy, heat capacity and specific heat, measurement of $\Delta U$ and $\Delta H$. Hess's law of constant heat summation, enthalpy of bond dissociation, combustion, formation, atomization, sublimation, phase transition, ionization, solution and dilution. Second law of Thermodynamics (brief introduction). Introduction of entropy as a state function, Gibb's energy change for spontaneous and non- spontaneous processes, criteria for equilibrium. Third law of thermodynamics (brief introduction). |
| **AUGUST-SEPTEMBER** | **BLOCK TEST I** | | |

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| **SEPTEMBER-OCTOBER** | **VI** | **Equilibrium** | Equilibrium in physical and chemical processes, dynamic nature of equilibrium, Law of mass action, equilibrium constant, Factors affecting equilibrium- Le Chatelier's principle, Ionic equilibrium-ionization of acids and bases, strong and weak electrolytes, degree of ionization, ionization of poly basic acids, acid strength, concept of pH, Henderson Equation, hydrolysis of salts (elementary idea), buffer solution, solubility product, common ion effect (with illustrative examples) |
| **OCTOBER-NOVEMBER** | | **The Gaseous State** | Qualitative treatment of Gas laws, Ideal gas equation and deviations from it. (This topic is included in the syllabus but will be assessed only formatively to reinforce understanding without adding to summative assessments). |
| **NOVEMBER** | **VII** | **Redox Reactions** | Concept of oxidation and reduction, redox reactions, oxidation number, balancing redox reactions, in terms of loss and gain of electrons and change in oxidation number, applications of redox reactions. |
| **NOVEMBER** | **VIII** | **Organic Chemistry-Some Basic Principles & Techniques** | Classification and IUPAC nomenclature of organic compounds. Isomerism |
| **NOVEMBER-DECEMBER** | **UNIT TEST II** | | |
| **DECEMBER** | **VIII** | **Organic Chemistry-Some Basic Principles & Techniques** | Electronic displacements in a covalent bond: inductive effect, electromeric effect, resonance and hyperconjugation, Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions, electrophiles and nucleophiles, types of organic reactions. |

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| **JANUARY** | **IX** | **Hydrocarbons** | Alkanes - Nomenclature, isomerism, conformation (ethane only), Physical properties, chemical reactions including free radical mechanism of halogenation, combustion and pyrolysis.<br>Alkenes - Nomenclature, structure of double bond (ethene), geometrical isomerism, physical properties, methods of preparation, Chemical reactions: addition of hydrogen, halogen, water, hydrogen halides (Markownikov's addition and peroxide effect), ozonolysis, oxidation, mechanism of electrophilic addition.<br>Alkynes - Nomenclature, structure of triple bond (ethyne), physical properties, methods of preparation, chemical reactions: acidic character of alkynes, addition reaction of - hydrogen, halogens, hydrogen halides and water.<br>Aromatic Hydrocarbons: Introduction, IUPAC nomenclature, benzene: resonance, aromaticity,<br>Chemical properties: mechanism of electrophilic substitution. Nitration, sulphonation, halogenation, Friedel Craft's alkylation and acylation,<br>Directive influence of functional group in monosubstituted benzene. Carcinogenicity and toxicity. |
| | **REVISION** | | |
| **FEBRUARY** | **BLOCK TEST II** | | |

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# Biology

| MONTH | UNIT | TOPIC |
|---|---|---|
| APRIL | Cell: Structure And Functions | Cell: The Unit Of Life |
| MAY | Diversity In The Living World | Living World |
| | Diversity In The Living World | Biological Classification |
| **UNIT TEST-I** | | |
| JUNE | Diversity In The Living World | Biological Classification |
| | | PLANT KINGDOM |
| | Cell: Structure And Functions | Cell Cycle And Cell Division |
| JULY | Diversity In The Living World | Animal Kingdom |
| | Cell: Structure And Functions | Biomolecules |
| | Structural Organisation In Plants And Animals | Morphology Of Flowering Plants |
| AUGUST | Structural Organisation In Plants And Animals | Anatomy Of Flowering Plants |
| SEPTEMBER | Structural Organisation In Plants And Animals | Structural Organisation Of Animals |
| | Plant Physiology | Photosynthesis In Higher Plants |
| | Plant Physiology | Respiration In Higher Plants |
| **BLOCK TEST-I** | | |
| OCTOBER | Plant Physiology | Respiration In Higher Plants |
| | | Plant Growth And Development |
| NOVEMBER | Human Physiology | Breathing And Exchange Of Gases |
| DECEMBER | Human Physiology | Body Fluids And Circulation |
| | | Excretory Products And Their Elimination |
| | | Locomotion And Movement |
| **UNIT TEST-II** | | |
| JANUARY | Human Physiology | Neural Control And Co-Ordination |
| | | Chemical Co-Ordination And Integration |
| FEBRUARY | **BLOCK TEST-II** | |
| **SYLLABUS FOR YEARLY EXAMINATION - Entire syllabus as per CBSE guidelines.** | | |

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# Mathematics

| MONTH | TOPICS | SUBTOPICS |
|---|---|---|
| APRIL | Sets | Sets and their representations, Empty set, Finite and Infinite sets, Equal sets, Subsets, Subsets of a set of real numbers especially intervals (with notations). Universal set. Venn diagrams. Union and Intersection of sets. Difference of sets. Complement of a set. Properties of Complement.<br><br>***(Practical problems on Union and Intersection of two sets.)** |
| | Relations and Functions | Ordered pairs. Cartesian product of sets. Number of elements in the Cartesian product of two finite sets. Cartesian product of the set of reals with itself (up to **R × R × R**). Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. Function as a special type of relation. Pictorial representation of a function, domain, co-domain and range of a function. Real valued functions, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum, exponential, logarithmic and greatest integer functions, with their graphs. Sum, difference, product and quotients of functions.<br><br>*** Composition of Functions** |
| | Trigonometry | Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another. |
| MAY | Trigonometric Functions | Domain and range of trigonometric functions and their graphs. Application of **sin(x±y) , cos(x±y)** etc. |
| JUNE | **UNIT TEST- 1** | |
| JUNE | Trigonometric Functions | Expressing **sin (x±y)** and **cos (x±y)** in terms of **sinx, siny, cosx** & **cosy** and their simple applications. Deducing identities using the above. Identities related to **sin2x, cos2x, tan2 x, sin3x, cos3x** and **tan3x.**<br><br>*** General solution of trigonometric equations of the type sin y = sin a, cos y = cos a, tan y = tan a.** |
| JULY | Complex numbers and Quadratic equations | Need for complex numbers, especially , to be motivated by inability to solve some of the quadratic equations. Algebraic properties of complex numbers. Argand plane.<br><br>*** Polar representation of complex numbers. Statement of Fundamental Theorem of Algebra, solution of quadratic equations (with real coefficients) in the complex number system.** |

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| | Linear Inequalities | Linear inequalities. Algebraic Solutions of linear inequalities in one variable and their representation on the number line.<br><br>*** Graphical solution of linear inequalities in two variables. Graphical method of finding a solution of system of linear inequalities in two variable.** |
| | Straight Lines | Brief recall of two-dimensional geometry from earlier classes. Slope of a line and angle between two lines. Various forms of equations of a line: parallel to axis, point -slope form, slope-intercept form, two-point form, intercept form, Distance of a point from a line.<br><br>***Normal form. Geneal equation of a line.** |
| **AUGUST** | Sequence and Series | Arithmetic Mean (A.M.), Geometric Progression (G.P.), general term of a G.P., sum of n terms of a G.P., infinite G.P. and its sum, geometric mean (G.M.), relation between A.M. and G.M.<br><br>*** Special sequence.** |
| **AUGUST** | **BLOCK TEST- 1** | |
| **SEPTEMBER** | Permutations and Combinations | Fundamental principle of counting. Factorial n. ( n!). Permutations and combinations, derivation of Formulae and their connections, simple applications. |
| | Binomial Theorem | Historical perspective, statement and proof of the binomial theorem for positive integral indices. Pascal's triangle, simple applications.<br><br>***(General and middle term in binomial expansion)** |
| | Conic Sections | Sections of a cone: Circles, a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section. Standard equations and simple properties of a circle. |
| **OCTOBER** | Conic Sections | Ellipse, Parabola definition. Standard equations and simple properties of parabola and ellipse. |
| **NOVEMBER** | Conic Sections | Hyperbola definition. Standard equation and simple properties of Hyperbola. |
| | Introduction to Three dimensional Geometry | Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points.<br><br>*** Section formula** |
| | Probability | Events; occurrence of events, 'not', 'and' & 'or' events, exhaustive events, mutually exclusive events, Axiomatic (set theoretic) probability, connections with other theories of earlier classes. Probability of an event, probability of 'not', 'and' and 'or' events.<br><br>***Random experiments; outcomes, sample space (set** |

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| | | **representation).** |
| **NOVEMBER** | **UNIT TEST- 2** | |
| **DECEMBER** | Limits and Derivatives | Derivative introduced as rate of change both as that of distance function and geometrically. Intuitive idea of limit. Limits of polynomials and rational functions trigonometric, exponential and logarithmic functions. Definition of derivative relate it to scope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.<br><br>*** Derivatives of composite functions (Chain rule).** |
| **JANUARY** | Statistics | Measures of Dispersion: Range, Mean deviation, variance and standard deviation of ungrouped/grouped data. |
| | ***Principle of Mathematical Induction** | ***Process of the proof by induction, motivating the application of the method by looking at natural numbers as the least inductive subset of real numbers. The principle of mathematical induction and it's simple applications.** |
| **FEBRUARY** | **BLOCK TEST- 2** | |

**STAR MARKED (*) TOPICS ARE INCLUDED IN THE SYLLABUS TO REINFORCE UNDERSTANDING BUT WILL NOT BE ADDED TO SUMMATIVE ASSESSMENTS.**

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# Economics

| MONTH | TOPIC | SUB-TOPIC |
|---|---|---|
| APRIL | Introduction to Microeconomics, Macroeconomics, Positive and Normative Economics | What is an economy, scarcity, Economic problems, Positive and Normative economics, Central problems of an economy, Production Possibility Curve, |
| | Production Possibility Curve | Properties of PPC, Shift and rotation of PPC. |
| | Government Policies and its effect on PPC | Effect of Different Government Policies on the PPC, Numericals on PPC |
| | Introduction to Statistics | Economic/Non-economic activities, Statistics definition, Functions/Limitations |
| | Collection of data | Primary/Secondary data, Data collection modes, Census/Sample methods, Random/non-random sampling |
| MAY | Organisation of data | Classification/Variable concepts, Statistical series, Loss of information |
| JUNE | Presentation of data | Textual, tabular, diagrammatic and graphical presentation of data |
| | Consumer's equilibrium | Cardinal Approach of Consumer's equilibrium, LDMU |
| | Ordinal approach | Indifference curve Approach of Consumer's Equilibrium, Budget line |
| | **UNIT TEST 1** | |

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| **JULY** | Demand | Demand, Individual and market demand. Determinants of demand, Law of Demand, Change in demand and Change in Quantity demanded. Price elasticity of demand and factors affecting price elasticity of demand- percentage method and total expenditure method. |
| | Measures of central tendency- Mean, Median and Mode | Calculation of Mean , median mode. |
| | Theory of Production | Short run and long run production function, total, average and marginal product, returns to factor |
| **AUGUST** | Theory of Cost | Short run costs-total, fixed and variable. Average cost, average fixed cost and average variable cost marginal cost-meaning and their relationship. |
| **AUGUST-SEPTEMBER** | **REVISION AND BLOCK TEST -1** | |
| **SEPTEMBER** | Revenue. | Total, average and marginal revenue-meaning and relationship. |
| | Producer's equilibrium. | Producer's equilibrium-meaning, condition in MR-MC approach |
| | Theory of supply and its elasticity | Supply, market supply, determinants of supply, supply schedule, supply curve and its slope, movement along and shift in supply curve, price elasticity of supply and its measurement by percentage method. |
| **OCTOBER** | Correlation | Meaning and properties, scatter diagram, measures of correlation-karl pearson's method (2-variable un-grouped data) and Spearman's rank correlation method ( tied and untied ranks). |
| **NOVEMBER** | Forms of market and determination of | Perfect competition- features, |

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| | per unit price of a good in a perfectly competitive market. | determination of market equilibrium and effects of shifts in demand and supply. Price control-price ceiling and price floor. |
| **NOVEMBER-DECEMBER** | **UNIT TEST II** | |
| **DECEMBER** | Index Numbers. | Meaning, types, wholesale price index. |
| **JANUARY** | Index Numbers. Revision | Consumer's price index, index of industrial production, uses of index numbers- inflation and index numbers, simple aggregative method. |
| | **REVISION** | |
| **FEBRUARY** | **BLOCK TEST-II** | |

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# Accountancy

| MONTH | TOPIC | SUB TOPIC |
|---|---|---|
| APRIL | Introduction to Accounting | Transactions-meaning features, types. Objective of accounting, accounting concepts and accounting principles |
| | Theory Base of Accounting | Accounting Terminology |
| | Accounting Process | Accounting Equation |
| MAY | Double Entry System | Classification of Accounts ,Golden Rule, Debit & Credit, simple Journal entries |
| JUNE | UNIT TEST I | |
| | Double Entry System | Source documents, Journal Entries, Journalising (contd along with GST), ledger posting and balancing of accounts |
| JULY | | Cash Book (single, double column) and Petty Cash Book<br>Purchase and Sales Day Book; Purchase return and sales return Day Book (excluding B/R and B/P day book) |
| AUGUST | | Trial Balance |
| | Trial Balance and Rectification of Errors (including theory) | Trial Balance with corrections and Rectification of Errors |
| | Bank Reconciliation Statement (including theory) | Bank Reconciliation Statement (excluding amended cash book) |
| AUGUST-SEPTEMBER | BLOCK TEST I | |
| SEPTEMBER | Rectification of Errors | Rectification of errors detected before and after preparation of Trial<br>Balance and preparation of suspense account |
| | | Rectification continued |
| OCTOBER | Depreciation (including theory) | Depreciation - Method, reason for Charging depreciation. Straight Line Method only |
| NOVEMBER | Depreciation | Depreciation - Written down value method, provision for depreciation and Asset Disposal A/c. |
| | Provision and Reserves (Theory) | Meaning and types of reserves and provisions ;Capital and Revenue |
| NOVEMBER-DECEMBER | UNIT TEST II | |

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| **DECEMBER** | Final Accounts (including theory) | Final accounts - Without adjustment |
| | Provision and Reserves (sums) | Accounting treatment of reserves and provisions and representation in financial statements |
| | Final Accounts | Final accounts - With adjustment |
| **JANUARY** | Final Accounts | Final accounts - With adjustment |
| | Incomplete records | Incomplete Records-1.Features, reasons and limitations<br>2. Ascertainment of Profit/Loss by Statement of Affairs method |
| | **REVISION** | |
| **FEBRUARY** | **BLOCK TEST II** | |

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# Business Studies

| MONTH | TOPIC | SUB TOPIC |
|---|---|---|
| APRIL | Evolution and Fundamentals of Business | History of commerce in India, Concept and Characteristics |
| | | Differentiation between Business, Profession and Employment, Objectives of Business (Economic and Social), Role of Profit |
| | | Classification of Business Activity (Industry and Commerce), Business Risk - Meaning, nature and causes and written work |
| MAY | Forms of Business Organisation | Sole Proprietorship - Features, Concept, Merits, Demerits. Partnership: Features, Types, Merits, Demerits and Types of partners,minor as a partner, Joint Hindu Family Business, |
| JUNE | **UNIT TEST I** | |
| | Forms of Business Organisation | Cooperative Societies - Features, Types,Merits and Demerits |
| | | Joint Stock Companies - Features, Merits and demerits, Formation of a company procedure and documents (including OPC) |
| | | Starting a Business - basic Factors |
| | Public, Private and Global Enterprise | Differentiation between Public Sector and Private Sector, Forms of Public Sector - Feature, Merits and Demerits, Changing role of Public Sector, Features of - Global Enterprises, Joint Venture, PPP |
| JULY | Business Services | Banking - Types of bank accounts, banking services, RTGS, NEFT, core banking |
| | | Insurance - Principles, Life Insurance, Health Insurance, Fire Insurance and Marine Insurance - Meaning and Differentiation. Postal and telecom services. |
| AUGUST | Emerging Modes of Business | E- Business - Scope, Benefit, Resources required to implement, online transactions, Payment mechanism and Security and safety of business transaction, Outsourcing BPO and KPO |
| AUGUST-SEPTEMBER | **BLOCK TEST 1** | |
| SEPTEMBER | Social Responsibility and Business Ethics | Meaning, Definition and Need for Social Responsibility, Arguments For and Against Social Responsibility, Responsibility towards different interest groups |

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| **OCTOBER** | Sources of Business Finance | Meaning and need for Business Finance, Sources of business finance ownership basis, Retained Earnings, Issue of equity shares, Preference shares |
| | | Borrowed Fund - Debenture and Bonds, Loans from Commercial Banks and Financial Institutions, Public Deposit, Trade Credit and ICD |
| **NOVEMBER** | Small Business | Entrepreneurship Development concept characteristics and need, Definition of Small Scale Enterprise, Role of Small Business in India with special Reference to Rural Areas |
| | | Government Scheme and Agencies - NSIC and DIC with special reference to Rural, Backward and Hilly Area and written work, start-up India Scheme, ways to fund start-up, intellectual property rights. Small scale enterprises defined by MSMED Act 2006 (Micro, Small and Medium Enterprise Development Act) |
| **NOVEMBER-DECEMBER** | **UNIT TEST II** | |
| **DECEMBER** | Internal Trade | GST concept and key features, Services of a wholesaler, services of Retailers, Types of Retail Trade - Itinerant retailers. |
| | | Small Scale Fixed Shops, Large Scale Retailer - Departmental Stores |
| | | Chain Stores and Mail Order Houses |
| | | GST - Concept and Key features |
| **JANUARY** | International Trade | Meaning, Characteristics of International Trade, Difference between Internal and International Trade, Advantages and Disadvantages of International Trade |
| | | Export Procedure with all documents and Import Procedure with all documents. WTO, its meaning and objectives |
| | **REVISION** | |
| **FEBRUARY** | **BLOCK TEST II** | |

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# Entrepreneurship

| MONTH | TOPIC | SUBTOPIC |
|---|---|---|
| **JUNE** | Entrepreneurship: Concept and Functions | 1. Concepts, Functions and Needs<br>2. Why entrepreneurship for you<br>3. Myths about Entrepreneurship<br>4. Advantages and Limitations of entrepreneurship |
| **JULY** | Entrepreneurship: Concept and Functions | 5. Process of entrepreneurship<br>6. Entrepreneurship - the Indian scenario |
| | An Entrepreneur | 1.Why be an entrepreneur<br>2. Types of entrepreneurs<br>3. Competencies and Characteristics<br>4. Entrepreneurial values, Attitudes and Motivation.<br>5. Intrapreneur: Meaning and Importance |
| **AUGUST** | Entrepreneurial Journey | 1.Generation of ideas<br>2. Feasibility study and opportunity assessment.<br>3. Business plan: meaning, purpose and elements.<br>4. Execution of Business Plan |
| | Entrepreneurship as Innovation and Problem Solving | 1. Entrepreneurs as problem solvers |
| **AUGUST-SEPTEMBER** | **BLOCK TEST 1** | |
| **SEPTEMBER** | Entrepreneurship as Innovation and Problem Solving | 2. Innovations and Entrepreneurial ventures - Global and Indian<br>3. Role of Technology - E-Commerce and Social media<br>4. Social Entrepreneurship-Concept |
| **OCTOBER** | Understanding the Market | 1. Market: Concept<br>2. Micro and Macro Market Environment<br>3. Market Research-Concept, Importance and Process<br>4. Marketing Mix |
| **NOVEMBER** | UNIT TEST II | |
| **DECEMBER** | Business Finance and Arithmetic | 1. Unit of Sale, Unit Price and Unit Cost-for single product or service<br>2. Types of Cost-Start Up, Variable and Fixed<br>3. Break Even Analysis-for single product or service |

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| **JANUARY** | Resource Mobilization | 1. Types of Resources- Physical, Human, Financial and Intangible<br>2. Selection and Utilization of human resources and professionals like Accountants, Lawyers, Auditors, Board Members, etc |
| | **REVISION** | |
| **FEBRUARY** | **BLOCK TEST II** | |

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# Computer Science

| MONTH | TOPIC | SUB-TOPIC |
|---|---|---|
| APRIL | Introduction to Problem Solving | Steps for problem solving (analysing the problem, developing an algorithm, coding, testing and debugging). representation of algorithms using flow chart and pseudo code, decomposition |
| | Getting Started with Python | Introduction to Python, features of Python, executing a simple "hello world" program, execution modes: interactive mode and script mode, Python character set, Python tokens (keyword, identifier, literal, operator, punctuator), variables, concept of l-value and r-value, use of comments |
| MAY | Python Fundamentals | Knowledge of data types: number (integer, floating point, complex), boolean, sequence (string, list, tuple), none, mapping (dictionary), mutable and immutable data types |
| | Data Handling | Arithmetic operators, relational operators, logical operators, assignment operators, augmented assignment operators, identity operators (is, is not), membership operators (in, not in) |
| | | Expressions, statement, type conversion & input/output: precedence of operators, expression, evaluation of expression, python statement, type conversion (explicit & implicit conversion), accepting data as input from the console and displaying output. |
| JUNE | Conditional And Iterative Statements | Flow of control: introduction, use of indentation, sequential flow, conditional and iterative flow control, Conditional statements: if, if-else, if-elif-else |
| | | Programs on Conditional statements |
| JUNE | **UNIT TEST - I** | |

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| **JULY** | Conditional And Iterative Statements | Iterative statements: for loop, range function, while loop, flowcharts, break and continue statements, nested loops |
| | | Programs on Iterative statements |
| | Computer System Overview | Basic Computer Organisation: Introduction to the computer system, hardware, software, input device, output device, CPU, memory (primary, cache and secondary), units of memory (Bit, Byte, KB, MB, GB, TB, PB) |
| | | Types of software: system software (operating systems, system utilities, device drivers), programming tools and language translators (assembler, compiler & interpreter), application software |
| | | Operating system (OS): functions of operating system, OS user interface. Encoding schemes: ASCII, ISCII and UNICODE (UTF8, UTF32) |
| | | Emerging trends: Cloud computing, cloud services (SaaS, IaaS, PaaS), blockchains, Artificial Intelligence (AI), Machine Learning (ML), Internet of Things (IoT) |
| **AUGUST** | Data Representation | Binary, Octal, Decimal and Hexadecimal number systems; conversion between number systems. |
| | Boolean Logic | Boolean logic: NOT, AND, OR, NAND, NOR, XOR, truth table, De Morgan's laws and logic circuits |
| | String Manipulation | Introduction, indexing, string operations (concatenation, repetition, membership & slicing), traversing a string using loops, built-in functions: len(), capitalize(), title(), lower(), upper(), count(), find(), index(), endswith(), startswith(), isalnum(), isalpha(), isdigit(), islower(), isupper(), isspace(), lstrip(), rstrip(), strip(), replace(), join(), partition(), split() |
| **AUGUST** | **REVISION FOR BLOCK TEST – I** | |
| **AUGUST - SEPTEMBER** | **BLOCK TEST – I** | |
| | | Introduction, indexing, list operations (concatenation, repetition, membership & slicing), traversing a list using |

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| **SEPTEMBER** | List Manipulation | loops |
| **OCTOBER** | | Built-in functions: len(), list(), append(), extend(), insert(), count(), index(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum(); nested lists, suggested programs: finding the maximum, minimum, mean of numeric values stored in a list; linear search on list of numbers and counting the frequency of elements in a list |
| | Debugging Programs | Errors: syntax errors, logical errors, runtime errors |
| **NOVEMBER** | Tuples | Introduction, indexing, tuple operations (concatenation, repetition, membership & slicing), built-in functions: len(), tuple(), count(), index(), sorted(), min(), max(), sum(); tuple assignment, nested tuple, suggested programs: finding the minimum, maximum, mean of values stored in a tuple; linear search on a tuple of numbers, counting the frequency of elements in a tuple |
| | Introduction to Python modules | Importing module using 'import <module>' and using from statement, Importing math module (pi, e, sqrt, ceil, floor, pow, fabs, sin, cos, tan); random module (random, randint(), randrange()), statistics module (mean, median, mode) |
| | Dictionaries | Introduction, accessing items in a dictionary using keys, mutability of dictionary (adding a new item, modifying an existing item), traversing a dictionary |
| | UNIT TEST - II | |
| **DECEMBER** | Dictionaries | Built-in functions: len(), dict(), keys(), values(), items(), get(), update(), del(), clear(),<br><br>fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), count(), sorted(), copy(); suggested programs : count the number of times a character appears in a given string using a dictionary, create a dictionary with names of employees, their salary and access them.<br><br>Programs on Dictionary |

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| **JANUARY** | Cyber Safety | Digital Footprints |
| | | Digital society and Netizen: net etiquettes, communication etiquettes, social media etiquettes |
| | | Data protection: Intellectual Property Right (copyright, patent, trademark), violation of IPR (plagiarism, copyright infringement, trademark infringement), open source softwares and licensing (Creative Commons, GPL and Apache) |
| | | Cyber-crime: definition, hacking, eavesdropping, phishing and fraud emails, ransomware, preventing cyber crime |
| | | Cyber safety: safely browsing the web, identity protection, confidentiality, cyber trolls and bullying. |
| | | Safely accessing web sites: malware, viruses, trojans, adware |
| | | E-waste management: proper disposal of used electronic gadgets |
| | | Indian Information Technology Act (IT Act) |
| | | Technology & Society: Gender and disability issues while teaching and using computers |
| | **REVISION FOR BLOCK TEST – II** | |
| **FEBRUARY** | **BLOCK TEST – II** | |

# History

| MONTH | UNIT | TOPIC | SUB-TOPICS |
|---|---|---|---|
| **APRIL/MAY** | **1** | Writing and City Life | Mesopotamia and its Geography<br>The significance of urbanism<br>Movement of goods into cities<br>The development of writing<br>The system of writing<br>Literacy<br>The uses of writing<br>Urbanisation in southern Mesopotamia:<br>Temples and kings<br>Life in the city<br>A trading town in a pastoral zone<br>Cities in Mesopotamian culture<br>The legacy of writing |
| **UNIT TEST I** | | | |
| **JUNE/JULY** | **2** | An Empire across Three Continents | The early empire<br>The third-century crisis<br>Gender, literacy, culture<br>Economic expansion<br>Controlling workers<br>Social hierarchies<br>Late antiquity |
| **AUGUST** | **3** | Nomadic Empires | Social and political background<br>The career of Genghis Khan<br>The Mongols after Genghis Khan<br>Social, political and military organisation<br>Conclusion: Situating Genghis Khan and the<br>Mongols in world history |
| | **4** | The Three Orders (till the 4th order) | An introduction to Feudalism<br>France and England<br>The three orders<br>The second order: The Nobility<br>The manorial estate<br>The Knights<br>The first order: the Clergy<br>Monks<br>The Church and society<br>The third order: Peasants, free and unfree<br>England<br>Factors affecting social and economic |

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| | | | relations<br>The environment<br>Land use<br>New agricultural technology |
| **BLOCK TEST I** | | | |
| **SEPTEMBER/ OCTOBER** | **4** | The Three Orders<br>(to be continued) | A Fourth Order? New towns and townspeople<br>Cathedral-towns<br>The crisis of the fourteenth century<br>Social unrest<br>Political changes |
| **UNIT TEST II** | | | |
| **NOVEMBER** | **5** | Changing Cultural Traditions | The revival of Italian cities<br>Universities and Humanism<br>The humanist view of history<br>Science and philosophy:<br>The Arabs' contribution<br>Artists and Realism<br>Architecture<br>The first printed books<br>A new concept of human beings<br>The aspirations of women<br>Debates within Christianity<br>The Copernican Revolution<br>Reading the universe<br>Was there a European 'Renaissance' in the<br>fourteenth century? |
| **DECEMBER** | **6** | Displacing Indigenous people | European imperialism<br>North America<br>The native peoples<br>Encounters with Europeans<br>Mutual perceptions<br>The native peoples lose their land<br>The Gold Rush,<br>and the growth of<br>industries<br>Constitutional rights<br>The winds of change…<br>Australia |
| **JANUARY** | **7** | Paths to Modernisation | JAPAN<br>The political system<br>The Meiji Restoration<br>Modernising the economy<br>Industrial workers |

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| | | | Aggressive nationalism<br>'Westernisation' and 'Tradition'<br>Daily life<br>'Overcoming modernity'<br>After Defeat: Re-emerging as a global<br>economic power<br>CHINA<br>Establishing the republic<br>The Rise of the Communist Party of China<br>Establishing the new democracy: 1949-65<br>Conflicting visions: 1965-78<br>Reforms from 1978<br>The story of Taiwan<br>The story of Korea<br>Beginnings of modernisation<br>A post-war nation<br>Rapid industrialisation under strong leadership<br>Continued economic growth and calls<br>for democratisation<br>Korean democracy and the IMF crisis |
| **FEBRUARY** | **BLOCK TEST II** | | |

# Geography

| FUNDAMENTALS OF PHYSICAL GEOGRAPHY [PART-A] | | | |
|---|---|---|---|
| **MONTH** | **UNIT** | **TOPIC** | **SUB TOPIC** |
| **APRIL** | Unit I- Geography as a Discipline | Geography as a Discipline | Geography as an integrating discipline, as a science of spatial attributes. Branches of Geography: Physical Geography and Human Geography. |
| | Unit II The Earth | The Origin and Evolution of the Earth | Origin and evolution of the earth: Early and Modern theories |
| **MAY** | Unit II The Earth | The Origin and Evolution of the Earth | Interior of the earth.: Earthquakes and volcanoes: causes, types and effects. |
| **UNIT TEST 1** | | | |
| **JUNE** | | Distribution of oceans and continents | Distribution of oceans and continents: Wegener's continental drift theory and plate tectonics. |
| **JULY** | Unit- III Landforms | Geomorphic Processes | Geomorphic processes: weathering; mass wasting; erosion and deposition; soil formation. |
| | | Landform and their Evolution | Landforms and their evolution- Brief erosional and depositional features of rivers, wind, glaciers, sea waves and underground water. |
| **AUGUST** | Unit - IV Climate | Composition and Structure of Atmosphere | Atmosphere- composition and structure; elements of weather and climate. |
| | | Solar Radiation, Heat balance and Temperature | Insolation-angle of incidence and distribution; heat budget of the earth-heating and cooling of atmosphere (conduction, convection, terrestrial radiation and advection); temperature-factors controlling temperature; distribution of temperature-horizontal and vertical; inversion of temperature. |
| **BLOCK TEST 1** | | | |

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| **SEPTEMBER** | Unit - IV Climate | Atmospheric Circulations and Weather Systems | Pressure: pressure belts; winds- planetary, seasonal and local; air masses and fronts; tropical and extratropical cyclones. |
| **OCTOBER-NOVEMBER** | | Water in the Atmosphere | Precipitation- evaporation; condensation-dew, frost, fog, mist and cloud; rainfall- types and world distribution. |
| | | World Climate and Climate Change | Climate and Global Concerns (To be tested through internal assessments in the form of project and presentation) |
| **UNIT TEST 2** | | | |
| **DECEMBER** | Unit-V Water (Oceans) | Water (Oceans) | Submarine relief. Oceans - distribution of temperature and salinity. Ocean resources and pollution |
| | | Movements of Ocean Water | Movements of ocean water-waves, tides and currents |
| **JANUARY** | Unit VI Life on the Earth | Biodiversity and Conservation | Biosphere - biodiversity and conservation. (To be tested through internal assessments in the form of project and presentation) |
| **FEBRUARY** | **BLOCK TEST-II** | | |

| **INDIA: PHYSICAL GEOGRAPHY [PART-B]** | | | |
|---|---|---|---|
| **MONTH** | **UNIT** | **TOPIC** | **SUBTOPIC** |
| **APRIL** | Unit-I Introduction | Introduction | Location, space relations, India's place in the world |
| **MAY-JUNE** | Unit II Physiography | Structure and Physiography | Structure And Relief; Physiographic Divisions |
| **UNIT TEST I** | | | |

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| **JULY** | Unit II Physiography | Structure and Physiography | Drainage systems: Concept of river basins, watershed; the Himalayan and the Peninsular rivers |
| **AUGUST** | Unit III Climate Vegetation and Soil | Climate | Weather And Climate - Spatial And Temporal Distribution of Temperature. Indian Monsoon: Mechanism, Onset And Withdrawal |
| **BLOCK TEST 1** | | | |
| **SEPTEMBER AND OCTOBER** | Unit III Climate Vegetation and Soil | Natural Vegetation | Natural vegetation-forest types and distribution; Wildlife; conservation; biosphere reserves |
| **NOVEMBER** | Unit-IV Natural Hazards and Disasters: Causes Consequences and Management | Natural Hazards | Floods, Cloudbursts. Droughts: types and impact. [ TO BE TESTED THROUGH PROJECT] |
| **UNIT TEST II** | | | |
| **DECEMBER** | Unit-IV Natural Hazards and Disasters: Causes Consequences and Management | Natural Hazards | Earthquakes and Tsunami. Cyclones: features and impact. Landslides. [ TO BE TESTED THROUGH PROJECT] |
| **JANUARY** | **REVISION** | | |
| **FEBRUARY** | **BLOCK TEST-II** | | |

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# Political Science

| MONTH | UNIT | CHAPTER | SUB-TOPICS |
|---|---|---|---|
| APRIL | 1 | CONSTITUTION WHY AND HOW? | Why do we need a Constitution?<br>The authority of a Constitution,<br>How was the Indian Constitution made?<br>Provisions adapted from Constitutions of different countries |
| | 2 | RIGHTS IN THE INDIAN CONSTITUTION | The importance of rights -Bill of Rights, Fundamental rights in the Indian Constitution; Directive principles of state policy; Relationship between Fundamental Rights and Directive Principles |
| | 3 | ELECTION AND REPRESENTATION | Elections and democracy, Election system in India -FPTP system; Reservation of constituencies; Free and fair elections Electoral Reforms |
| MAY | 4 | THE LEGISLATURE | Why do we need a parliament?<br>Why do we need two houses of parliament?<br>What does the parliament do?<br>How does the parliament make laws?<br>How does the parliament control the executive?<br>What do the committees of parliament do?<br>How does the parliament regulate itself? |

| UNIT 1 | | | |
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| **JUNE** | **5** | THE EXECUTIVE | Parliamentary Executive in India; What is an Executive; Different Types of Executive; Powers and Position of the President Prime Minister and the Council of Ministers; Permanent Executive- The Bureaucracy |
| | **6** | THE JUDICIARY | Why do we need an independent judiciary? Independence of Judiciary- Appointment of Judges<br>- Removal of Judges<br>Structure of the Judiciary<br>Jurisdiction of Supreme Court<br>Judicial Activism<br>Judiciary and Rights<br>Judiciary and Parliament |
| **JULY** | **7** | FEDERALISM | Federalism in the Indian Constitution<br>Federalism with a strong central government<br>Conflicts in India's federal system<br>President's Rule<br>Special provisions |
| | **8** | LOCAL GOVERNMENTS | Necessity of Local Governments;<br>Growth of Local Governments in India;<br>"73rd and 74th Amendments;<br>Working and Challenges of Local Governments" |

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| **JULY / AUGUST** | **9** | CONSTITUTION AS A LIVING DOCUMENT | Are constitutions static?<br>How to amend the constitution?<br>Why have there been so many amendments?<br>Contents of amendments made so far? |
| | **10** | THE PHILOSOPHY OF THE CONSTITUTION | Meaning of Philosophy of the Constitution;<br>Need to go back to Constituent Assembly;<br>Political Philosophy of the Constitution;<br>Procedural Achievements<br>Criticisms, Limitations |
| **AUGUST** | **11** | POLITICAL THEORY AN INTRODUCTION | What is Politics?<br>Politics vs Political Theory<br>Importance of Political Theory;<br>Putting Political theory into practice,<br>Why should we study political theory? |
| | **12** | FREEDOM | The sources of Constraints-Why do we need constraints?<br>The Harm Principle<br>Negative and Positive liberty |
| BLOCK TEST I | | | |
| **SEPTEMBER/ OCTOBER** | **13** | EQUALITY | Equality<br>Why does equality matter?<br>● Equality of opportunities |

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| | | | ● Natural and Social Inequalities<br>Three dimensions of equality<br>Feminism, Socialism<br>How can we promote equality? |
| | **14** | SOCIAL JUSTICE | What is Justice?<br>● Equal Treatment for Equals<br>● Proportionate Justice<br>● Recognition of Special Needs<br>Just distribution John Rawls Theory of Justice Pursuing Social Justice |
| | **15** | RIGHTS | What are Rights?<br>Where do rights come from?<br>Legal rights and the state<br>Kinds of rights<br>Rights and responsibilities |
| **NOVEMBER** | **16** | CITIZENSHIP | Introduction<br>Full and equal membership,<br>Equal Rights,<br>Citizen and Nation,<br>Universal Citizenship,<br>Global Citizenship |
| | **17** | NATIONALISM | Introducing<br>Nationalism;<br>Nations and Nationalism;<br>National Self Determination; |

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| | | | Nationalism and Pluralism |
| **UNIT TEST II** | | | |
| **DECEMBER / JANUARY** | **18** | SECULARISM | What is Secularism?<br>● Inter-religious Domination<br>● Intra-religious Domination,<br>Secular State,<br>The western model of secularism,<br>The Indian model of secularism |
| **BLOCK TEST II** | | | |

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# Psychology

| MONTH | UNIT | TOPICS | SUB-TOPICS |
|---|---|---|---|
| APRIL AND MAY | I | What Is Psychology | Introduction understanding and evolution Branches,themes, psychology in India, Psychology at work, psychology in everyday life. |
| | II | Methods Of Enquiry in Psychology | Goals and nature of enquiry. Some important methods such as experimentation(concept of variables), interview, case study, survey, observation Analysis of data(qualitative and quantitative), ethical issues |
| | Practical 1 | | Report on any one method of enquiry(survey method) |
| JUNE | **UNIT TEST- I** | | |
| | Practical 2 | | Highlighting Adolescence as "a period of stress and storm" through newspaper or magazine cut outs and relevant research. |
| | III | Human Development | Development,growth and maturation Overview of developmental stages: different types of development Infancy, childhood, adulthood etc. |
| **UNIT TEST-I** | | | |
| JULY | IV | Sensory, Attentional and Perceptual process | Sense modalities, adaptation, and atten- tional processes: theories and factors Perception Concept and definition Principles of perception and after images Perception of space depth and distance. Perceptual constancies- Illusions, socio- cultural influences in perception. |
| | | Practical 3 | Psychology of Advertisements: Highlighting the factors of attention that attracts the potential customers |

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| **JULY-AUGUST** | V | Learning | Nature of learning Classical and Operant conditioning Concept and Skill learning, Verbal learning and other theories Learning styles and Specific Learning Disorders Application of learning Principles |
| **AUGUST** | **BLOCK TEST-I** | | |
| **SEPTEMBER** | VI | Human Memory | Nature of memory, Information Processing approach of memory. Knowledge representation and processes. Nature and causes of forgetting Enhancing Memory |
| **OCTOBER-NOVEMBER** | VII | Thinking | Nature of Thinking Thought and language Reasoning, problem solving, decision making Nature and process of creative thinking Developing creativity, Language development |
| | Practical 4 and 5 | | |
| **UNIT TEST II** | | | |
| **DECEMBER** | VII | Emotion | Nature of motivation. Motives-Biological and psychosocial, Mc Clleland's theory Maslow's Hierarchy of needs Emotion-concepts and definitions Emotional expressions Theories of emotions Managing Negative emotion |
| **JANUARY FEBRUARY** | **REVISION BLOCK TEST-II** | | |

# Physical Education

| MONTH | UNIT | TOPIC | SUB TOPIC |
|---|---|---|---|
| APRIL | 1 | Changing Trends & Career In Physical Education | Concept, Aims & objectives in Physical education |
| | | | Development of Physical Education in India – Post Independence |
| | | | Changing trends in Sports- playing surface, wearable gears and sports equipment, technological advancements |
| | | | Career options in Physical education |
| | | | Khelo India program & Fit-India Program |
| APRIL/ MAY | 2 | Olympism value Education | Olympism - Concept and Olympics Values (Excellence, Friendship & Respect) |
| | | | Olympic Value Education - Joy of Effort, Fair Play, Respect for Others, Pursuit of Excellence, Balance Among Body, Will & Mind |
| | | | Ancient and Modern Olympics |
| | | | Olympics - Symbols, Motto, Flag, Oath, and Anthem |
| | | | Olympic Movement Structure - IOC, NOC, IFS, Other members |
| UNIT TEST-I | | | |
| JUNE | 3 | Yoga | Meaning & Importance of Yoga |
| | | | Introduction to Ashtanga Yoga |
| | | | Introduction to Yogic Kriyas (Shat Karma) |
| | | | Pranayama and its types |
| | | | Active Lifestyle and stress management through Yoga |
| JULY | 4 | Physical Education & Sports For CWSN ( Children With Special Needs- Divyang) | Concept of Disability and Disorder |
| | | | Types of Disability, its causes & nature (Intellectual disability, Physical disability) |
| | | | Disability Etiquette |
| | | | Aim & Objective of Adaptive Physical Education |
| | | | Role of various professionals for children with special needs (Counselor, Occupational Therapist, Physiotherapist, Physical Education Teacher, Speech Therapist & Special Educator) |
| AUGUST | 5 | Physical fitness, Health and Wellness | Meaning and Importance of Wellness, Health and Physical Fitness |
| | | | Components/Dimensions of Wellness, Health and Physical Fitness |

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| | | | Traditional Sports & Regional Games for promoting wellness |
| | | | Leadership through Physical Activity and Sports |
| | | | Introduction to First Aid - PRICE |
| **BLOCK TEST-I** | | | |
| **SEPTEMBER** | 6 | Test, Measurement & Evaluation | Define Test, Measurement & Evaluation. |
| | | | Importance of Test, Measurements and Evaluation in Sports |
| | | | Calculation of BMI, Waist - Hip Ratio, Skin fold measurement (3-site) |
| | | | Somatotypes (Endomorphy, Mesomorphy & Ectomorphy) |
| | | | Measurements of health-related fitness |
| **OCTOBER** | 7 | Fundamentals of Anatomy, Physiology in Sports | Definition and Importance of Anatomy and Physiology in exercise and sports |
| | | | Functions of Skeletal system, classification of bone and types of joints |
| | | | Properties and Functions of Muscles |
| | | | Function and Structure of Circulatory system and heart |
| | | | Function and Structure of Respiratory system |
| **NOVEMBER** | 8 | Fundamentals of Kinesiology & Biomechanics in Sports | Definition and Importance of Kinesiology and Biomechanics in Sports |
| | | | Principles of Biomechanics |
| | | | Kinetics and Kinematics in Sports |
| | | | Types of Body Movements - Flexion, Extension, Abduction, Adduction, Rotation, Circumduction, Supination & Pronation |
| | | | Axis and Planes – Concept and its application in body movements |
| **UNIT TEST-II** | | | |
| **DECEMBER** | 9 | Psychology & Sports | Definition & Importance of Psychology in Physical education & Sports |
| | | | Developmental Characteristics at Different Stages of Development |
| | | | Adolescent Problems & Their Management |
| | | | Team Cohesion and Sports |
| | | | Introduction to Psychological Attributes: Attention, Resilience, Mental Toughness |
| **JANUARY** | 10 | Training & Doping In Sports | Concept and Principles of Sports Training |
| | | | Training Load: Overload, Adaptation, and Recovery |
| | | | Warming-up & Limbering Down – Types, Method & Importance |
| | | | Concept of Skill, Technique, Tactics & Strategies |

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| | | | Concept of Doping and its disadvantages |
| **FEBRUARY** | **BLOCK TEST-II** | | |

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# Painting

| MONTH | UNITS | TOPICS | SUB TOPICS (THEORY) |
|---|---|---|---|
| APRIL-MAY | 1 | Pre-Historic rock paintings and Art of Indus Valley. | Pre-Historic Rock-Paintings Introduction |
| | | | Wizard's Dance, Bhimbethaka |
| | | | Indus Valley Introduction |
| | | | Dancing girl |
| | | | Male Torso |
| | | | Mother Goddess |
| | | | Bull(Seal) |
| | | | Painted earthen-ware |
| | 1 | Buddhist, Jain and Hindu Art. (Mauryan Art) | Introduction |
| | | | Lion Capital from Sarnath |
| | | | Chauri Bearer from Didar Ganj |
| **UNIT TEST I** | | | |
| JUNE | 2 | Buddhist, Jain and Hindu Art. | Seated Buddha from Katra Mound |
| | | | Jain Tirathankara |
| | | Temple Sculpture | Ajanta :Introduction |
| | | | Indian Temples culpture |
| JULY | 2 | Temple Sculpture | Descent of Ganga |
| | | | Trimuti |
| AUGUST | 3 | | Lakshmi Narayana |
| | | | Cymbal Player |
| **BLOCK TEST I** | | | |
| SEP-OCT | 3 | Indian bronze | Mother and Child |
| | | | Indian bronze: Introduction |
| NOVEMBER | 3 | Indian bronze | Nataraj |
| | | | |
| DECEMBER | 3 | Indo Islamic Architecture | Qutub Minar |
| | | | Gol Gumbad, Bijapur |
| **UNIT TEST II** | | | |
| JANUARY | 3 | Revision | Pre-Historic rock paintings and Art of Indus Valley. |
| | | | Buddhist, Jain and Hindu Art. |
| | | | Temple, Sculpture, Bronze & Islamic Architecture |
| **BLOCK TEST II** | | | |

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# Sociology

| MONTH | UNIT | TOPIC | SUBTOPIC |
|---|---|---|---|
| **APRIL** | Introducing Sociology | Sociology and society | Introducing Society: Individuals and collectivities. Pluralities and Inequalities among societies. Introducing Sociology: Emergence. Nature and Scope. Relationship with other Social Science disciplines |
| **MAY** | Introducing Sociology | Terms, Concepts and their use in Sociology | Social Groups and Society Social Stratification |
| **UNIT TEST-I** | | | |
| **JUNE** | Introducing Sociology | Terms, Concepts and their use in Sociology | Status and Role Society & Social Control |
| **JULY** | Introducing Sociology | Understanding Social Institutions | Family, Marriage and Kinship Work & Economic Life Political Institutions Religion as a Social Institution Education as a Social Institution |

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| **AUGUST** | Understanding Society | Social Change and Social Order in Rural and Urban Society | Social Change: Types, Causes and Consequences Social Order: Domination, Authority and Law; Contestation |
| **BLOCK TEST-I** | | | |
| **SEPTEMBER** | Understanding Society | Social Change and Social Order in Rural and Urban Society | Crime and Violence Concepts: Village, Town and City Social Order and Social Change in Rural and Urban Areas |
| **OCTOBER/ NOVEMBER** | Introducing Sociology | Culture and Socialization | Defining Culture Dimensions of Culture Socialization Agencies of Socialisation &Sociology |
| **UNIT-II** | | | |
| **DECEMBER** | Understanding Society | Western Sociologists<br><br>Indian Sociologist | The Context of Sociology Karl Marx on Class Conflict Emile Durkheim: Division of Labour in society Max Weber: Interpretive Sociology, Ideal Type & Bureaucracy |

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| **JANUARY** | | | G.S. Ghurye on Caste and Race D.P. Mukherjee on Tradition and Change A.R. Desai on the State M.N. Srinivas on the Village |
| **FEBRUARY** | **BLOCK TEST-II** | | |