



**RUBY PARK
PUBLIC SCHOOL**

Class **XI** Syllabus





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 A Photograph (Poem) The Summer of the Beautiful White Horse
MAY	2	Listening & Speaking	Classified Advertisem ent	Tenses and usage/ gap filling exercise Re-ordering of Sentences Transformatio n of Sentences	
UNIT TEST 1					
JUNE	3	Note Making & Summarizing	Speech and Debate	Re-ordering of sentences/ Transformatio n of sentences	We're Not Afraid to Die
JULY	4	Note Making & Summarizing	Classified Advertisem ent	Integrated Exercises	Discovering Tut, The Laburnum Top (poem), The Address, The Voice of the Rain (poem)
AUGUST	5	ASL	Speech and Debate	Transformation of sentences	Revision
BLOCK TEST I					



SEPTEMBER	6	Comprehension - Analytical Passage	Speech and Debate	Tenses Verbs Vocabulary Transformatio n 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 Advertisem ent	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, Advertisem ent	Clauses - exercises, Integrated Grammar	The Tale of Melon City (contd.0
BLOCK TEST II					



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. 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. 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	<p>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.</p> <p>Equilibrium of concurrent forces. Static and kinetic friction, laws of friction, rolling friction. lubrication</p> <p>Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on level circular road, vehicle on banked road).</p>



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



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 contact, application of surface tension ideas to drops, bubbles and capillary rise. Excess 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. Isothermal, 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;



Syllabus

Class XI

Session: 2025 - 26



	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		



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



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. (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 ΔU and ΔH . 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		



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.



JANUARY	IX	Hydrocarbons	<p>Alkanes - Nomenclature, isomerism, conformation (ethane only), Physical properties, chemical reactions including free radical mechanism of halogenation, combustion and pyrolysis.</p> <p>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.</p> <p>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.</p> <p>Aromatic Hydrocarbons: Introduction, IUPAC nomenclature, benzene: resonance, aromaticity,</p> <p>Chemical properties: mechanism of electrophilic substitution. Nitration, sulphonation, halogenation, Friedel Craft's alkylation and acylation,</p> <p>Directive influence of functional group in monosubstituted benzene. Carcinogenicity and toxicity.</p>
			REVISION
FEBRUARY			BLOCK TEST II



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
BLOCK TEST-I		
SEPTEMBER	Structural Organisation In Plants And Animals	Structural Organisation Of Animals
	Plant Physiology	Photosynthesis In Higher Plants
	Plant Physiology	Respiration In Higher Plants
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.		



Mathematics

MONTH	TOPICS	SUBTOPICS
APRIL	Sets	<p>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.</p> <p>*(Practical problems on Union and Intersection of two sets.)*</p>
	Relations and Functions	<p>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 $\mathbf{R \times R \times R}$). 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.</p> <p>* Composition of Functions</p>
	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 $\sin(x \pm y)$, $\cos(x \pm y)$ etc.
JUNE	UNIT TEST- 1	
JUNE	Trigonometric Functions	<p>Expressing $\sin (x \pm y)$ and $\cos (x \pm y)$ in terms of $\sin x$, $\sin y$, $\cos x$ & $\cos y$ and their simple applications. Deducing identities using the above. Identities related to $\sin 2x$, $\cos 2x$, $\tan 2 x$, $\sin 3x$, $\cos 3x$ and $\tan 3x$.</p> <p>* General solution of trigonometric equations of the type $\sin y = \sin a$, $\cos y = \cos a$, $\tan y = \tan a$.</p>
JULY	Complex numbers and Quadratic equations	<p>Need for complex numbers, especially , to be motivated by inability to solve some of the quadratic equations. Algebraic properties of complex numbers. Argand plane.</p> <p>* Polar representation of complex numbers. Statement of Fundamental Theorem of Algebra, solution of quadratic equations (with real coefficients) in the complex number system.</p>



	Linear Inequalities	Linear inequalities. Algebraic Solutions of linear inequalities in one variable and their representation on the number line. * 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. *Normal form. General 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. * 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. *(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. * 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. *Random experiments; outcomes, sample space (set



		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 slope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions. * 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.



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	



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,



	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	



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	
JULY	Double Entry System	Source documents, Journal Entries, Journalising (contd along with GST), ledger posting and balancing of accounts
		Cash Book (single, double column) and Petty Cash Book 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 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	



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 2. Ascertainment of Profit/Loss by Statement of Affairs method
	REVISION	
FEBRUARY	BLOCK TEST II	



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



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	



Entrepreneurship

MONTH	TOPIC	SUBTOPIC
JUNE	Entrepreneurship: Concept and Functions	<ol style="list-style-type: none"> 1. Concepts, Functions and Needs 2. Why entrepreneurship for you 3. Myths about Entrepreneurship 4. Advantages and Limitations of entrepreneurship
JULY	Entrepreneurship: Concept and Functions	<ol style="list-style-type: none"> 5. Process of entrepreneurship 6. Entrepreneurship - the Indian scenario
	An Entrepreneur	<ol style="list-style-type: none"> 1. Why be an entrepreneur 2. Types of entrepreneurs 3. Competencies and Characteristics 4. Entrepreneurial values, Attitudes and Motivation. 5. Intrapreneur: Meaning and Importance
AUGUST	Entrepreneurial Journey	<ol style="list-style-type: none"> 1. Generation of ideas 2. Feasibility study and opportunity assessment. 3. Business plan: meaning, purpose and elements. 4. Execution of Business Plan
	Entrepreneurship as Innovation and Problem Solving	<ol style="list-style-type: none"> 1. Entrepreneurs as problem solvers
AUGUST-SEPTEMBER	BLOCK TEST 1	
SEPTEMBER	Entrepreneurship as Innovation and Problem Solving	<ol style="list-style-type: none"> 2. Innovations and Entrepreneurial ventures - Global and Indian 3. Role of Technology - E-Commerce and Social media 4. Social Entrepreneurship-Concept
OCTOBER	Understanding the Market	<ol style="list-style-type: none"> 1. Market: Concept 2. Micro and Macro Market Environment 3. Market Research-Concept, Importance and Process 4. Marketing Mix
NOVEMBER	UNIT TEST II	
DECEMBER	Business Finance and Arithmetic	<ol style="list-style-type: none"> 1. Unit of Sale, Unit Price and Unit Cost-for single product or service 2. Types of Cost-Start Up, Variable and Fixed 3. Break Even Analysis-for single product or service



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



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	



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)
AUGUST		Emerging trends: Cloud computing, cloud services (SaaS, IaaS, PaaS), blockchains, Artificial Intelligence (AI), Machine Learning (ML), Internet of Things (IoT)
	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 -	BLOCK TEST – I	



SEPTEMBER		
SEPTEMBER		Introduction, indexing, list operations (concatenation, repetition, membership & slicing), traversing a list using loops
OCTOBER	LIST MANIPULATION	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	<p>Built-in functions: len(), dict(), keys(), values(), items(), get(), update(), del(), clear(),</p> <p>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.</p> <p>Programs on Dictionary</p>
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	



INFORMATICS PRACTICES

MONTH	UNIT	TOPIC	SUB TOPIC
APRIL	1	Introduction to Computer System	Evolution of computing devices
			Components of a Computer System and their interconnections, Input and Output devices
			Computer Memory: Types of Memory
			data deletion, its recovery and related security concerns
			Software: purpose and types
APRIL-MAY	2	Introduction to Python	Python execution modes: Interactive and script mode
			the structure of a program, indentation, identifiers, keywords, constants, variables
			types of operator, precedence of operators
			Simple programs in Python
UNIT TEST - I			
JUNE	2	Introduction to Python	Data types, mutable and immutable types
			Expression evaluation, Input and output
			Control Statements: if-else, if-elif-else
			Programs on Conditional statements
JULY	2	Introduction to Python	Looping statements - for loop
			Looping statements - while loop
			Programs on Looping statements
AUGUST	2	Introduction to Python	Lists - creation, initialisation, traversal
			List indexing, slicing, replication
			List manipulation, built-in methods
BLOCK TEST - I			



SEPTEMBER	2	Introduction to Python	List methods - append(), extend(), insert()
			count(), index(), remove(), pop()
			sort(), reverse(), min(), max(), sum()
			List based programs
OCTOBER	2	Introduction to Python	Dictionary: the concept of key-value pair
			Creating, initializing, traversing, updating
			Deleting elements, built-in methods, dict()
			len(), keys(), values(), items(), update(), delivery, clear()
			Programs based on dictionary
NOVEMBER	3	Database Concepts and the Structured Query Language	Introduction to database concepts and its need
			Relational data model: Concept of domain, tuple,
			Candidate key, Primary key, Alternate key
			Advantages of using Structured Query language
			Data Definition Language, Data Query Language
UNIT TEST - II			
DECEMBER	3	Database Concepts and the Structured Query Language	DDL - CREATE DATABASE, CREATE
			DML - INSERT, DELETE, UPDATE
			SELECT FROM, WHERE and Relational operators
			Logical operators, between, is null, is not null
JANUARY	4	Introduction to the Emerging Trends	Artificial Intelligence, Machine learning, NLP
			Immersive experience (AR, VR), Robotics, Big data
			Internet of Things, Sensors Smart Cities
			cloud computing and cloud services (SaaS, PaaS, IaaS)
			Grid computing, Blockchain technology
FEBRUARY	BLOCK TEST - II		



History

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



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



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



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			



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		



Political Science

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



UNIT 1

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 - Removal of Judges Structure of the Judiciary Jurisdiction of Supreme Court Judicial Activism Judiciary and Rights Judiciary and Parliament
JULY	7	FEDERALISM	Federalism in the Indian Constitution Federalism with a strong central government Conflicts in India's federal system President's Rule Special provisions
	8	LOCAL GOVERNMENTS	Necessity of Local Governments; Growth of Local Governments in India; "73rd and 74th Amendments; Working and Challenges of Local Governments"



JULY / AUGUST	9	CONSTITUTION AS A LIVING DOCUMENT	<p>Are constitutions static?</p> <p>How to amend the constitution?</p> <p>Why have there been so many amendments?</p> <p>Contents of amendments made so far?</p>
	10	THE PHILOSOPHY OF THE CONSTITUTION	<p>Meaning of Philosophy of the Constitution;</p> <p>Need to go back to Constituent Assembly;</p> <p>Political Philosophy of the Constitution;</p> <p>Procedural Achievements</p> <p>Criticisms, Limitations</p>
AUGUST	11	POLITICAL THEORY AN INTRODUCTION	<p>What is Politics?</p> <p>Politics vs Political Theory</p> <p>Importance of Political Theory;</p> <p>Putting Political theory into practice,</p> <p>Why should we study political theory?</p>
	12	FREEDOM	<p>The sources of Constraints-Why do we need constraints?</p> <p>The Harm Principle</p> <p>Negative and Positive liberty</p>
BLOCK TEST I			
SEPTEMBER/ OCTOBER	13	EQUALITY	<p>Equality</p> <p>Why does equality matter?</p> <ul style="list-style-type: none"> Equality of opportunities



			<ul style="list-style-type: none">• Natural and Social Inequalities <p>Three dimensions of equality</p> <p>Feminism, Socialism</p> <p>How can we promote equality?</p>
	14	SOCIAL JUSTICE	<p>What is Justice?</p> <ul style="list-style-type: none">• Equal Treatment for Equals• Proportionate Justice• Recognition of Special Needs <p>Just distribution John Rawls Theory of Justice Pursuing Social Justice</p>
	15	RIGHTS	<p>What are Rights?</p> <p>Where do rights come from?</p> <p>Legal rights and the state</p> <p>Kinds of rights</p> <p>Rights and responsibilities</p>
NOVEMBER	16	CITIZENSHIP	<p>Introduction</p> <p>Full and equal membership,</p> <p>Equal Rights,</p> <p>Citizen and Nation,</p> <p>Universal Citizenship,</p> <p>Global Citizenship</p>
	17	NATIONALISM	<p>Introducing</p> <p>Nationalism;</p> <p>Nations and Nationalism;</p> <p>National Self Determination;</p>



			Nationalism and Pluralism
UNIT TEST II			
DECEMBER / JANUARY	18	SECULARISM	What is Secularism? <ul style="list-style-type: none">• Inter-religious Domination• Intra-religious Domination, Secular State, The western model of secularism, The Indian model of secularism
BLOCK TEST II			



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 attentional 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



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 Clelland'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



			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



**RUBY PARK
PUBLIC SCHOOL**



Session: 2025 - 26



			Concept of Skill, Technique, Tactics & Strategies
			Concept of Doping and its disadvantages
FEBRUARY	BLOCK TEST-II		



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 cultpure
JULY	2	Temple Sculpture	Descent of Ganga
AUGUST	3		Trimuti
			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			



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



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 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



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		