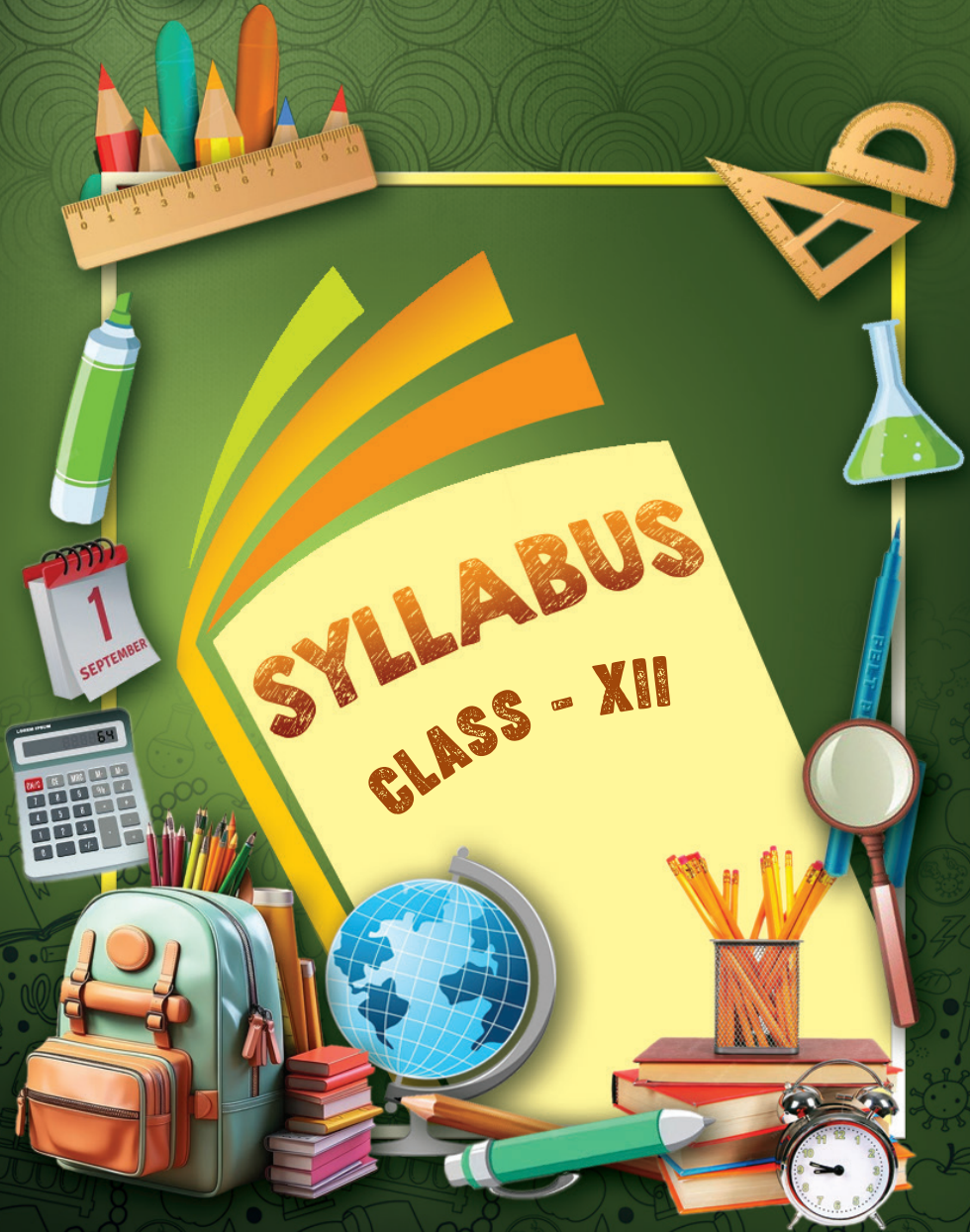




DELHI PUBLIC SCHOOL RUBY PARK, KOLKATA



English Session: 2024-25

Month	Month/Unit	Reading Skills/ASL	Writing Skills	Literature
April	1	Comprehension exercises from Literary Passages Case based passages	Formal Invitation	My Mother at Sixty-Six (poem)
				The Last Lesson
	2		Informal Invitation	The Third Level
Report writing	Lost Spring			
Unit Test - I				
May	4	ASL	Report writing Article Writing	Deep Water The Tiger King
	5	ASL	Notice Writing	Keeping Quiet (poem)
June	6	Comprehension from Discursive Passages		The Rattrap
				Journey to the End of the Earth
Unit Test - II				
July	7	Comprehension from Discursive Passages	Letter to the Editor	Indigo
				A Thing of Beauty (poem) The Enemy
August	8	Inference from Context	Job Application	The Enemy
				Going Places
	9	Comprehension from Factual Passages		On the Face of It
				Poets and Pancakes
The Interview				
Block Test - I				
September	10	Comprehension from Analytical Passages	Letter to the Editor	Aunt Jennifer's Tigers(poem)
October	11	Comprehension from Analytical Passages	Job Application	A Roadside Stand (poem) Memories of Childhood
November	12	ASL	Article Writing	Revision
Pre-Board Syllabus as prescribed by CBSE				

Mathematics

Session: 2024-25

Month	Topics	Subtopics
April	Relations and Functions	Types of relations: reflexive, symmetric, transitive and Equivalence Relation, Equivalence Class One to one and onto function
	Inverse Trigonometric Functions	Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions.
	Continuity	Continuity
May - June	Unit Test - 1	
	Differentiability	Differentiability, Derivative (Chain Rule), Derivative of inverse trigonometric functions, like $\sin^{-1}x$, $\cos^{-1}x$, and $\tan^{-1}x$, derivative of implicit functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic and exponential functions, derivative of functions expressed in parametric forms. Second order derivatives.
	Application of Derivatives	Rate of change of quantities, Increasing & Decreasing Functions
July	Application of Derivatives	Maxima and minima (first derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as real-life situations).
	UNIT TEST 2	
	Matrices	Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition and multiplication and multiplication with a scalar. Simple properties of addition, multiplication and scalar multiplication. Noncommutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2). Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entries).
	Determinants	Determinant of a square matrix (up to matrices), minors, co-factors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples, solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix
Month	Topics	Subtopics

Mathematics Session: 2024-25

Contd. 2

August	Linear Programming	Introduction, related terminology such as constraints, objective function, optimization, Graphical method of solution for problems in two variables, feasible and infeasible regions (bounded or unbounded), feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial constraints).
	Integrals	Indefinite Integrals: Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple integrals of the following types and problems based on them. $\int \frac{dx}{x^2 \pm a^2}, \int \frac{dx}{\sqrt{x^2 \pm a^2}}, \int \frac{dx}{\sqrt{a^2 \pm x^2}}, \int \frac{dx}{ax^2 + bx + c}$ $\int \frac{dx}{\sqrt{ax^2 + bx + c}}, \int \frac{px + q}{ax^2 + bx + c} dx, \int \frac{px + q}{\sqrt{ax^2 + bx + c}} dx$ $\int \sqrt{a^2 \pm x^2} dx, \int \sqrt{x^2 - a^2} dx, \int \sqrt{ax^2 + bx + c} dx,$
BLOCK TEST 1		
September	Integrals	Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals
	Probability	Conditional probability, multiplication theorem on probability, independent events, total probability, Bayes' theorem, Random variable and its probability distribution, mean of random variable.
October	Application of the Integrals	Applications in finding the area under simple curves, especially lines, circles/parabolas/ellipses (in standard form only)
	Differential Equations	Definition, order and degree, general and particular solutions of a differential equation. Solution of differential equations by method of separation of variables, solutions of homogeneous differential equations of first order and first degree. Solutions of linear differential equation of the type: $\frac{dy}{dx} + py = q \quad \text{where } p \text{ and } q \text{ are functions of } x \text{ or constants.}$ $\frac{dx}{dy} + px = q \quad \text{where } p \text{ and } q \text{ are functions of } y \text{ or constants.}$

Mathematics **Session: 2024-25**

Contd. 3

Month	Topics	Subtopics
November	Vectors	Vectors and scalars, magnitude and direction of a vector. Direction cosines and direction ratios of a vector. Types of vectors (equal, unit, zero, parallel and collinear vectors), position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Definition, Geometrical Interpretation, properties and application of scalar (dot) product of vectors, vector (cross) product of vectors.
	Three-dimensional Geometry	Direction cosines and direction ratios of a line joining two points. Cartesian equation and vector equation of a line, skew lines, shortest distance between two lines. Angle between two lines.
Preboard Pre-Board Syllabus as prescribed by CBSE		

Physics

Session: 2024-25

Month	Chapter	Topics	Sub Topics
April	I	Electrostatics	Electric charges and their conservation. Coulomb's law - force between two point charges, forces between multiple charges; superposition principle and continuous charge distribution.
			Electric field, electric field due to a point charge, electric field lines; electric dipole, electric field due to a dipole; torque on a dipole in a uniform electric field.
			Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside).
			Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two point charges and of electric dipoles in an electrostatic field.
			Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarisation, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor (no derivation, formulae only)
May and June	Unit Test - I		
	IX	Ray Optics	Reflection of light, spherical mirrors, mirror formula. Refraction of light, total internal reflection and optical fibres, refraction at spherical surfaces, lenses, thin lens formula, lens- maker's formula. Magnification, power of a lens, combination of thin lenses in contact.
			Refraction of light through a prism.
			Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.

Physics Session: 2024-25

Contd. 2

Month	Chapter	Topics	Sub Topics
	II	Current Electricity	<p>Electric current, flow of electric charges in a metallic conductor, drift velocity and mobility, and their relationship with electric current; Ohm's law, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity. Temperature dependence of resistance.</p> <p>Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel.</p> <p>Kirchhoff's laws Wheatstone bridge.</p>
June and July	III	Magnetic Effects of Current and Magnetism	<p>Concept of magnetic field, Oersted's experiment. Biot - Savart law and its application to current carrying circular loop. Ampere's law and its applications to infinitely long straight wire, straight solenoid(only qualitative treatment). Force on a moving charge in uniform magnetic and electric fields. Force on a current-carrying conductor in a uniform magnetic field. Force between two parallel current-carrying conductors-definition of ampere. Torque experienced by a current loop in a uniform magnetic field; current loop as a magnetic dipole and its magnetic dipole moment. Moving coil galvanometer-its current and voltage sensitivity and conversion to ammeter and voltmeter.</p> <p>Bar magnet, bar magnet as an equivalent solenoid (qualitative treatment only). Magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis (qualitative treatment only). Torque on a magnetic dipole (bar magnet) in a uniform magnetic field (qualitative treatment only); magnetic field lines.</p> <p>Magnetic properties of materials- Para-, dia- and ferro - magnetic substances, with examples. Magnetisation of materials; Effect of temperature on Magnetic Properties.</p>
Unit Test - II			

Physics

Session: 2024-25

Contd. 3

Month	Chapter	Topics	Sub Topics
August	IV	Electromagnetic Induction and Alternating Currents	Electromagnetic induction; Faraday's law, induced emf and current; Lenz's Law, Self and mutual inductance. Alternating currents, peak and rms value of alternating current / voltage; reactance and impedance; LCR series circuit (Phasors only), resonance; power in AC circuits, power factor, wattless current.AC generator and transformer.
	V	Electromagnetic Waves	Basic idea of displacement current, Electromagnetic waves and their characteristics, their transverse nature (qualitative ideas only). Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, x-rays, gamma rays) including elementary facts about their uses.
	X	Wave Optics	Wavefront and Huygens' principle, reflection and refraction of plane wave at a plane surface using wavefronts. Proof of laws of reflection and refraction using Huygens' principle. Interference, Young's double slit experiment and expression for fringe width (No derivation final expression only), coherent sources and sustained interference of light. Diffraction due to a single slit, width of central maximum (qualitative treatment only).
September	Block Test 1		
	XI	Photoelectric Effect Dual nature and matter waves	Dual nature of radiation, Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation - particle nature of light .Experimental Study of Photoelectric Effect. Matter waves - wave nature of particles, de Broglie relation.
October	XII & XIII	Atoms And Nuclei	Alpha - particle scattering experiment; Rutherford's model of atom; Bohr model of Hydrogen atom , expression of radius of nth possible orbit, velocity and energy of electron in this orbit of Hydrogen line spectra(qualitative treatment only). Composition and size of nucleus, nuclear force, Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission and fusion.

Physics **Session: 2024-25**

Contd. 4

Month	Chapter	Topics	Sub Topics
November	XIV	Electronic Devices	Energy Bands in conductors, Semiconductors and insulators (qualitative treatment only), intrinsic and extrinsic semi-conductors, p type and n type, pn junction; semiconductor diode - I-V characteristics in forward and reverse bias, diode as a rectifier;
Pre - Board Examination			
Pre - Board Syllabus as prescribed by CBSE			

Chemistry

Session: 2024-25

Month	Chapter No.	Chapter	Contents
April	I	Solutions	<ul style="list-style-type: none"> Types of solutions. Expression of concentration of solutions of solids in liquids Solubility of gases in liquid, solid in liquid. Colligative properties: relative lowering of vapour pressure, Raoult's law, elevation of boiling point, depression of freezing point, osmotic pressure Determination of molecular masses using colligative properties Abnormal molecular mass, Vant Hoff factor
	II	Electro-chemistry	<ul style="list-style-type: none"> EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells. . Relations between Gibbs energy change EMF of a cell
UNIT TEST - I			
May	II	Electro-chemistry	<ul style="list-style-type: none"> Conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration. Kohlrausch's Law. Electrolysis and laws of electrolysis (elementary idea) Dry cell, Electrolytic cells. Galvanic cells, Lead accumulator, Fuel cells, Corrosion
	III	Chemical Kinetics	<ul style="list-style-type: none"> Rate of a reaction (average and instantaneous) Factors affecting rates of reaction. Order and molecularity of a reaction Rate law and specific rate constant, integrated rate equations and half life (only for zero and first order reactions)
June	III	Chemical Kinetics (Contd.)	<ul style="list-style-type: none"> Activation energy, Arrhenius equation Concept of collision theory (elementary idea, no mathematical treatment)
	VI	Haloalkanes And Haloarenes	<ul style="list-style-type: none"> Haloalkanes: Nomenclature, nature of C-X bond, physical and chemical properties, mechanism of substitution reactions. Optical isomerism.

Chemistry

Session: 2024-25

Contd. 2

Month	Chapter No.	Chapter	Contents
July	VI	Haloalkanes and Haloarenes (Contd.)	<ul style="list-style-type: none"> Haloarenes: Nature of C-X bond, substitution reactions (directive influence of halogen formono-substituted compounds only). Uses and environmental effects of – dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.
	UNIT TEST - II		
	VII	Alcohols, Phenols and Ethers	<ul style="list-style-type: none"> Alcohols: Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only); identification of primary, secondary and tertiary alcohols; mechanism of dehydration, uses, with special reference to methanol and ethanol. Phenols: Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophilic substitution reactions, uses of phenols. Ethers: Nomenclature, methods of preparation, physical and chemical properties, uses.
August	VIII	Aldehydes, Ketones and Carboxylic Acids	<ul style="list-style-type: none"> Aldehydes and Ketones: Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties, and mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes; uses. Carboxylic Acids: Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses
	BLOCK TEST - I		
	IX	Amines	<ul style="list-style-type: none"> Preparation, physical and chemical properties, uses, identification of primary secondary and tertiary amines. Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.

Chemistry

Session: 2024-25

Contd. 3

Month	Chapter No.	Chapter	Contents
September	IV	d - and f - Block Elements	<ul style="list-style-type: none"> General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first-row transition metals – metallic character, ionization enthalpy, oxidation states, ionic radii, colour, catalytic property, magnetic properties, interstitial compounds, alloy formation. Preparation and properties of $K_2Cr_2O_7$ and $KMnO_4$. Lanthanoids – electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction and its consequences. Actinoids – Electronic configuration, oxidation states and comparison with lanthanoids.
October	V	Coordination Compounds	<ul style="list-style-type: none"> Coordination compounds: Introduction, Werner's theory, ligands, coordination number, colour, magnetic properties and shapes IUPAC nomenclature of mononuclear coordination compounds, isomerism (structural and stereo) Bonding, VBT, CFT Importance of coordination compounds (in qualitative analysis, extraction of metals and biological systems).
November	X	Biomolecules	<ul style="list-style-type: none"> Carbohydrates – Classification (aldoses and ketoses), monosaccharide (glucose and fructose), D-L configuration, oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen): importance of carbohydrates.. Proteins - Elementary idea of a - amino acids, peptide bond, polypeptides, proteins, primary structure, secondary structure, tertiary structure and quaternary structure (qualitative idea only), denaturation of proteins; enzymes. Vitamins – Classification and functions. Nucleic Acids: DNA and RNA
			Revision
			Pre - Board Examination
			Pre - Board Syllabus as prescribed by CBSE

Biology Session: 2024-25

Month	Unit	Topic
April	Reproduction	Sexual reproduction in flowering plants
May	Reproduction	Human reproduction
		Reproductive health- introduction
Unit Test - I		
June	Reproduction	Reproductive health - continued
	Genetics and Evolution	Principles of inheritance and variation
July	Genetics and Evolution	Molecular basis of inheritance
		Theory of evidences of evolution
	Biology in Human Welfare	Microbes in human welfare - introduction
Unit Test - II		
August	Biology in Human Welfare	Microbes in human welfare continued
		Human health and diseases - introduction
Block Test - I		
September	Biology in Human Welfare	Human health and diseases- continued
October	Biotechnology	Biotechnology: principles and process
November	Biotechnology	Biotechnology and its application
	Ecology	Organisms and population
		Ecosystems
		Biodiversity and conservation
Pre - Board Examination		
Pre - Board Syllabus as prescribed by CBSE		

Computer Science Session: 2024-25

Month	Topic	Sub Topic
March	Python Revision Tour	Tokens in Python Variables and Assignments Simple Input and Output Data Types Mutable and Immutable Types Expressions Statement Flow Control Looping Statements
April	Python Revision Tour-II	Strings in Python Lists in Python Tuples in Python Dictionaries in Python Sorting Techniques
	Working with Functions	Types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope)
Unit Test - 1		
May	Using Python Libraries	Creating python libraries
June	Exception Handling	Introduction, handling exception using try-catch-finally blocks
July	File Handling	Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths
		Text file: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/ appending data to a text file using write() and writelines (), reading from a text file using read(), readline () and readlines (), seek and tell methods, manipulation of data in a text file
		Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump () and load() method, read, write/create, search, append and update operations in a binary file
		CSV file: import csv module, open / close csv file, write into a csv file using csv. Writerow () and read from a csv file using csv. Reader ()

Computer Science

Session: 2024-25

Contd. 2

Month	Topic	Sub Topic
Unit Test - 2		
August	Data Structures: Linear Lists	Stack, operations on stack (push & pop), implementation of stack using list.
	Database Management	Database concepts: introduction to database concepts and its need
		Relational data model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key)
Database Management	Structured Query Language: introduction, Data Definition Language and Data Manipulation Language, data type (char(n), varchar(n), int, float, date), constraints (not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table, alter table (add and remove an attribute, add and remove primary key), drop table, insert, delete, select, operators (mathematical, relational and logical), aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null, like, update command, delete command, aggregate functions (max, min, avg, sum, count), group by, having clause, joins: cartesian product on two tables, equi-join and natural join	
Block Test - I		
October	Interface Python with MySQL	Connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using fetchone (), fetchall (), rowcount, creating database connectivity applications

Computer Science Session: 2024-25

Contd. 3

Month	Topic	Sub Topic
November	Computer Networks	Evolution of networking: introduction to computer networks, evolution of networking (ARPANET, NSFNET, INTERNET)
		Data communication terminologies: concept of communication, components of data communication (sender, receiver, message, communication media, protocols), measuring capacity of communication media (bandwidth, data transfer rate), IP address, switching techniques (Circuit switching, Packet switching)
		Transmission media: Wired communication media (Twisted pair cable, Co-axial cable, Fiber-optic cable), Wireless media (Radio waves, Microwaves, Infrared waves)
		Network devices (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card)
		Network topologies and Network types: types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree)
		Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP
		wireless/mobile communication protocol such as GSM, GPRS and WLL
		Mobile telecommunication technologies: 1G, 2G, 3G, 4G and 5G
		Introduction to web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting
Pre - Board Examination		
Pre - Board Syllabus as prescribed by CBSE		

Economics Session: 2024-25

Month	Unit	Topic	Sub-Topic
March	Part A (Macro Economics), Unit 1	National Income and Related Aggregates	Meaning, Basic Concepts In Macroeconomics. Capital Goods, Consumption Goods, Final Goods, Intermediate Goods, Gross Investment, Net Investment, Depreciation and Capital Loss. Concepts of Stock and Flow
April	Part A (Macro Economics), Unit 1	National Income and Related Aggregates	Circular Flow of Income in Two-Sector Economy, Methods of Calculating National Income - Value - Added, Income and Expenditure Methods. Aggregates Related To National Income. Real and Nominal GDP, GDP Deflator, GDP and Welfare.
May	Part B (Indian Economic Development), Unit 6	Development Experience (1947 -1990) and Economic Reforms Since 1991	Indian Economy on The Eve of Independence. Indian Economic System and The Common Goals of The Five-Year Plans. Problems and Policies of Agriculture- Institutional Reforms and New Agricultural Strategy, Industrial Policy Resolution of 1956, Foreign Trade, SSI Role and Importance.
Unit Test II			
June	Part B (Indian Economic Development), Unit 6, Part A (Macro Economics), Unit 2	Development Experience (1947-1990) and Economic Reforms Since 1991. Money and Banking	Features and Appraisals of Liberalization, Privatisation and Globalization. Concepts of Demonetization and GST. Money - Meaning & Functions, Supply of Money - Currency Held by Public and Demand Deposits Held by Commercial Banks, Money Creation by Commercial Banks. Central Bank and Its Functions, Credit Control Through Bank Rate, Repo Rate, Reverse Repo Rate, Open Market Operations, CRR, SLR, Margin Requirement.
July	Part B (Indian Economic Development), Unit 7	Current Challenges Facing Indian Economy - Human Capital Formation, Rural Development, Employment	How People Become Resource, Role of Human Capital In Economic Development and Growth of Education Sector in India. Credit and Marketing in Rural India, Key Issues, Role of Cooperatives, Agricultural Diversification, Alternate Farming-Organic Farming. Growth and Changes in Workforce Participation Rate in Formal and Informal Sectors: Problems and Policies.
Unit Test II			

Economics Session: 2024-25

Contd. 2

Month	Unit	Topic	Sub-Topic
August	PART A (Macro Economics), UNIT 3, 4	Government Budget and The Economy. Determination of Income and Expenditure	Meaning and Objectives of Government Budget, Components, Classification of Receipts- Revenue Receipts and Capital Receipts, Classification of Expenditure- Revenue and Capital Expenditure. Balanced, Surplus and Deficit Budget-Measures of Budgetary Deficits. Aggregate Demand and Its Components, Propensity to Consume and Save, Short-Run Equilibrium Output, Investment Multiplier and Its Mechanism. Meaning of Full Employment And Involuntary Unemployment, Problems of Deficient And Excess Demand and Monetary and Fiscal Measures to Correct Them- Changes in Government Spending, Taxes and Money Supply.
Block Test I			
October	Part B (Indian Economic Development) Unit 7, 8	Sustainable Development. Development Experience of India- A Comparison With Neighbors	Meaning, Effects of Economic Development on Resources And Environment and Global Warming. Comparison of India With China And Pakistan on Issues of Economic Growth, Population, Sectoral Development and Other Human Development Indicators.
November	Part A (Macro Economics), Unit 5	Balance of Payments and Foreign Exchange Rate	Balance of Payments-Meaning and Components. Surplus and Deficit Balance of Payments. Foreign Exchange Rate- Meaning of Fixed And Flexible and Managed Floating. Determination of Exchange Rate In A Flexible Market, Merits and Demerits of Fixed and Flexible Exchange Rate.
Pre - Board Examination			
Pre - Board Syllabus As Prescribed By CBSE			

Accountancy Session: 2024-25

Month	Topic	Sub Topic
March	Company Accounts	Financial Statements of Company (Balance Sheet as per Schedule III of Companies Act 2013)
		Issue of Shares at Par and Premium and consideration other than cash, Calls in arrear, Calls in Advance and Over subscription
		Forfeiture of shares issued at par and premium and there subsequent reissue. Oversubscription with Forfeiture
April	Company Accounts	Pro rata allotment and balance sheet representation
		Issue of Debentures - Issued at Par, Premium and Discount, Issue of Debentures as Collateral Securities and Issue of Debentures for consideration other than cash.
		Writing off of interest on Debentures
Unit Test I		
May	Analysis of Financial Statements	Financial Statements of a Company (Statement of Profit & Loss) Comparative Statement and Common size statement. Ratio Analysis - Liquidity, Solvency ratios
June	Analysis of Financial Statements	Ratio Analysis - Activity and Profitability Ratios
		Cash Flow Statement
July	Financial statement Analysis	Cash Flow Statement
Unit Test II		
July	Partnership	Fundamentals of Partnership - Theory, P/L Appropriation Account, Interest on Capital, Interest on Drawings, Fluctuating and Fixed Capital Accounts, Rectification of Closed Accounts and Guarantee of Minimum Share of Profit
August	Partnership	Change in Profit Sharing Ratio among existing Partners - Calculation of Sacrificing and Gaining Ratio, Valuation of Goodwill, Treatment of Goodwill, Treatment of Reserves and Accumulated Profits and Revaluation of Assets and Liabilities. Including preparation of new balance sheet
Block Test 1		
September	Partnership	Admission of a Partner - Premium for Goodwill and preparation of Revaluation Account, Partners Capital Account and Balance Sheet of reconstituted firm along with Hidden Goodwill
October	Partnership	Adjustment of Capital in admission of a partner
		Retirement of a Partner along with Partner's Loan Account and Death of a Partner along with Executor's Loan Account
November	Partnership	Dissolution of a firm along with Memorandum Balance Sheet and Journal Entries.
		Pre - Board Examination
Pre - Board Syllabus as prescribed by CBSE		

Business Studies Session: 2024-25

Month	Topic	Sub Topic
March	Nature and Significance of Management	Characteristics and Objectives of Management, Nature and Levels of Management Functions of Management and Coordination
	Principles of Management	Nature of Principles of Management , Importance of Principles of Management and Fayol's Principle
April	Principles of Management	Fayol's Principle Contd and Taylor's Principles and Technique and Comparison Between Taylor and Fayol
	Business Environment	Introduction of Business Environment, Features and Importance, Dimensions of Business Environment
		Dimensions of Business Environment, Demonetisation-Concept and Importance
Marketing Management	Marketing Management - Meaning, Functions and Marketing Philosophies and Marketing Mix Introduction	
Unit Test I		
May	Marketing Management	Marketing Mix -Product, Price, Place and Promotion Along With Public Relations
June	Financial Management	Definition of Financial Management, Three Important Decisions - Meaning and Factors Effecting The Same. Financial Planning - Objectives and Importance, Capital Structure Concept and Factors Affecting Capital Structure
July	Financial Management	Trading on Equity - Its Mathematical Proof. Fixed and Working Capital and Factors Affecting Fixed and Working Capital
	Financial Markets	Concept, Types, Money Market and Its Instruments, Distinction Between Money Market and Capital Market, Stock Exchange and Its Function and Trading Procedure and Securities and Exchange Board of India - Objectives and Functions
Unit Test II		
August	Consumer Protection	Concept and Importance, Consumer Protection Act 2019, Role of Ngo's and Non-Governmental Organisations
	Planning	Concept and Importance, Limitations, Planning Process and Types of Plans
	Organising	Concept And Importance, Organising Process, Structure of Organisation - Divisional and Functional Structure, Types of Organising, Formal and Informal, Delegation and Decentralisation-Concept, Elements Importance
Block Test I		

Business Studies **Session: 2024-25**

Contd. 2

Month	Topic	Sub Topic
September	Organising	Delegation and Decentralisation- Concept, Importance and Elements
October	Staffing	Concept and Importance, Staffing As A Part of Hrm, Staffing Process and Sources of Recruitment - Internal and External - Merits and Demerits
		Selection Process, Training and Development - Concept, Importance and Methods
November	Directing	Concepts, Importance and Elements. Motivation- Concept, Maslow's Theory and Financial and Non-Financial Incentives, Leadership - Concepts, Styles of Leadership, Communication - Concept, Formal and Informal Communication, Barriers To Communication and How To Overcome Barriers To Communication
		Controlling
Pre-Board Examination		
Pre-Board Syllabus As Prescribed By CBSE		

Entrepreneurship

Session: 2024-25

Month	Unit	Topic
March	Entrepreneurial Opportunity An Entrepreneur	1. Elements of Business opportunity
		2. Factors involved in sensing opportunity
		3. Concept of environmental scanning
		4. Factors affecting business environment
		5. Meaning of idea fields
		6. Various sources of idea fields
		7. Technique of transformation of ideas into opportunities
		8. Understanding trend spotting
		9. Creative and innovative processes
April	Enterprise Planning	1. Why be an entrepreneur
		2. Types of entrepreneurs
		3. Competencies and Characteristics
		4. Entrepreneurial values, Attitudes and Motivation
		5. Intrapreneur: Meaning and Importance
Unit Test I		
May	Enterprise Planning	3. Business Plan 4. Format of Business Plan 5. Formalities required for starting a business
June	Understanding The Market	1. What are Goal setting and Smart Goals
		2. Various marketing strategies used in a firm
		3. Understanding in detail 4P's in marketing
		4. Understanding the concepts of Brand, Logo and Tagline
		5. Meaning and methods of negotiation
		6. Understanding the importance of employees, customer and vendor
		7. Understanding the importance of quality in customer satisfaction
		8. Various reasons for business failures
July	Enterprise Growth Strategies	1. Detail about franchising and its types
		2. How growth of firm possible through merger and acquisition
Unit Test		
July	Enterprise Growth Strategies	3. Types and meaning of mergers and acquisitions
		4. Understand the reasons for mergers and acquisitions
		5. Understand the reasons for failure of mergers and acquisitions

Entrepreneurship

Session: 2024-25

Contd. 2

Month	Unit	Topic
July	Enterprise Growth Strategies	6. Concept of value addition
		7. Meaning of value chain and requirement of value chain management
August	Business Arithmetic	1. Concept of Unit price, Break-even point and its calculations
		3. Meaning of Inventory control and E.O.Q.
Revision and BT I		
September	Business Arithmetic	4. Meaning of cash flow projection and concept of working capital
		6. Terminologies of Financial management and budgets
		7. Concept and calculation of Return on Investment and Return on Equity
October	Resource Mobilisation	1. Understand the need of finance in Business
		2. Discuss the various sources of funds required for a firm
November		3. Understand the ways of raising funds in primary market
		4. Angel Investors and Venture capitalists- Features and funding
Pre - Board Examination		
Pre - Board Syllabus as prescribed by CBSE		

History

Session: 2024-25

Month	Unit	Topic
April - May	1	Bricks, Beads and Bones
	2	Kings, Farmers and Towns
	3	Kinship, Caste and Class
Unit Test I		
May	4	Thinkers, Beliefs and Buildings
June	5	Medieval Society through Travelers' Accounts
July	6	Bhakti and Sufi Traditions
	7	An Imperial Capital: Vijayanagara
Unit Test II		
August	8	Peasants, Zamindar and the State
	9	Colonialism and the Countryside
Block Test I		
September & October	10	Rebels and the Raj
	11	Mahatma Gandhi and the Nationalist Movement
November	12	Framing the Constitution
	Pre - Board Examination	
Pre - Board Syllabus as prescribed by CBSE		

Geography Session: 2024-25

Month	Unit	Topic	Sub topic
April	I	Human Geography	Nature and scope
	II A	The World Population Density Distribution and Growth	Population-distribution, density and growth. Population change-Components of population change, Demographic transition theory.
May	II B	Human Development	Human development - concept; selected indicators, international comparisons
Unit Test - I			
June	III A	Primary Activities	Primary activities - concept and changing trends; gathering, pastoral, mining, subsistence agriculture, modern agriculture; people engaged in agricultural and allied activities - some examples from selected countries
July	III B	Secondary Activities	Secondary activities-concept; manufacturing: types - household, small scale, large scale; agro based and mineral based industries; people engaged in secondary activities - some examples from selected countries
Unit Test - II			
August	III C	Tertiary and Quaternary Activities	Tertiary Activities-Concept; Trade, Transport and Tourism; Services; People Engaged in Tertiary Activities - Some Examples from Selected Countries. Quaternary Activities-Concept; People Engaged in Quaternary Activities - Case Study
Block Test - I			
September	III D	Transport, Communication and Trade	Land Transport - Roads, Railways; Trans-Continental Railways. Water Transport- Inland Waterways; Major Ocean Routes. Air Transport- Intercontinental Air Routes. Oil And Gas Pipelines. Satellite Communication and Cyber Space- Importance and Usage for Geographical Information; Use Of GPS.
October - November	III E	International Trade	International Trade- Bases and Changing Patterns; Ports as Gateways Of International Trade; Role Of WTO in International Trade
Revision			
December	PRE-Board Examination		

Geography Session: 2024-25

India People and Economy [Part B]

Contd. 2

Month	Unit	Topic	Sub topic
April	I	Population Distribution Density Growth and Composition	Population: distribution, density and growth; composition of population - linguistic, religious; sex, rural-urban and occupational- regional variations in growth of population.
May	II	Human Settlements	Rural settlements - types and distribution. Urban settlements - types, distribution and functional classification.
Unit Test - I			
June	III A	Land Resources and agriculture	Land resources- general land use; agricultural land use; geographical conditions and distribution of major crops (Wheat, Rice, Tea, Coffee, Cotton, Jute, Sugarcane and Rubber); agricultural development and problems
July	III B	Water Resources	Water Resources-Availability and Utilization: Irrigation, Domestic, Industrial And Other Uses; Scarcity Of Water And Conservation Methods- Rain Water Harvesting and Watershed Management
Unit Test - II			
August	III C	Mineral and Energy Resources	Mineral and energy resources- distribution of metallic (Iron ore, Copper, Bauxite, Manganese); non-metallic (Mica, Salt) minerals; conventional (Coal, Petroleum, Natural gas and Hydroelectricity) and non- conventional energy sources (solar, wind, biogas) and conservation
	III D	Planning and Sustainable Development in Indian Context	Planning in India- target group area planning (case study); idea of sustainable development (case study)
Block Test - I			
September and October	IV A	Transport Communication	Transport and communication-roads, railways, waterways and airways: oil and gas pipelines; Geographical information and communication networks.
	IV B	International Trade	India's international trade in terms of volume, composition and direction.
November	V	Geographical Perspective on Selected Issues and Problems	Environmental pollution; urban-waste disposal. Urbanization, rural- urban migration; problems of slums. Land degradation.
	Revision		
December	Pre - Board Examination		
Pre - Board Syllabus as prescribed by CBSE			

Information Technology

Session: 2024-25

Month	Topic	Sub Topic
April	Communication types	Verbal Communication and Non-verbal Communication
		Pronunciation Basics
		Saying No — Refusal Skills
		Writing Skills — Parts of Speech
		Writing Skills — Sentences
		Greetings and Introduction
May	Behavioural Skills & Self-management skills	Talking about Self and family
		Grooming
		Personal Hygiene
		Team Work
		Networking Skills
		Self-motivation
		Goal Setting
Unit - Test - I		
June - July	Business Ethics	Introduction to Entrepreneurship
		Values, attitude and thinking of an Entrepreneur
		Coming Up with a Business Idea and understanding market
		Business Planning
	Coming up with Business Ideas	Time management
		Sectors of Green Economy
		Policies for a Green Economy
		Stakeholders in Green Economy
		Government and Private Agencies
Unit - Test - II		
August	Introduction to DBMS	Characteristics of Database Management Systems, Types of users of DBMS , Advantages of using DBMS Approach, Limitations of using DBMS Approach
	SQL – Creating and Opening Database	CREATE, UPDATE, ALTER, SELECT AND AGGREGATE FUNCTIONS
	Creating and populating tables.	
	Modifying, Ordering and Grouping.	GROUP BY, ORDER BY AND JOINING
	Basics of RDBMS	Relational Model Constraint
	Operating with multiple tables. *	JOIN TABLE QUERIES

Information Technology

Session: 2024-25

Contd. 2

Month	Topic	Sub Topic
August	Online Reservation Systems.	Advantages of Online Reservation System, Precautions while Performing Online Transactions, Using Online Reservation Systems ,Case Study: Book Rail Ticket
	Online Shopping and Bill payments. Online Tutorials and Tests	E-Governance Sites, Benefits of Online Shopping and How it works
	Project Management – Web Based Application development.	Project Essentials and Tip
Block - Test-I		
October	Java loop elements	Repetition Structures, The While Statement, The Do While Statement, the for Statement
	Java Arrays	Programs of arrays
	Java class design and thread design	Constructors, Access Modifiers ,Getter and Setter Methods. using constructors
November	Java Exception Handling	using try, catch and finally
	String handling and user defined methods	Programs using the same concepts, string functions
	Assertions and wrapper classes	creating assertions in expressions
	Identification of Work Areas and work experience	PROJECT WORK
Pre - Board Examination		
Pre - Board Syllabus as prescribed by CBSE		

Political Science Session: 2024-25

Month	Units / Chapters	Book 1 : Contemporary World Politics	
		Topic	Sub-Topic
April - May	1	The End of Bipolarity	The Soviet System, Gorbachev and disintegration, Disintegration of Soviet Union- Causes and Consequences, Shock Therapy; New entities in world politics, India- Russia relations
	2	Contemporary Centres of Power	Organisations: European Union, ASEAN, Nations: China, Japan and South Korea
	3	Contemporary South Asia	Military and Democracy in Pakistan and Bangladesh; Monarchy and Democracy in Nepal; Ethnic Conflict and Democracy in Sri Lanka, India-Pakistan Conflicts; India and its Neighbours; Peace and Cooperation
UNIT TEST 1			
May - June	4	International Organizations	Meaning and importance of International Organisations. Evolution of the UN, Structure and Functions of International Organisations, Principal Organs of UN, Reform of the UN, Reform of Structures, India and UN Reforms, Key Agencies, Future of International Organisations
	5	Security in the contemporary world	Security: Meaning and Types; Traditional and non-traditional concepts, New sources of threats, Cooperative Security, India's security Strategy
July	6	Environment and Natural Resources	Environmental Concerns, Global Commons, Common but differentiated Responsibilities, India's Stand, Environmental Movements, Resource Geopolitics, Rights of Indigenous People
	7	Globalisation	Concept, Causes and Consequences, India and Globalisation, resistance to Globalisation, India and Resistance to Globalisation
UNIT TEST 2			
July - August	1	Challenges of Nation-Building	a) Challenges for the new Nation. Three Challenges. b) Partition: Displacement and Rehabilitation. Consequences of Partition. c) Integration of Princely States. d) Reorganisation of States.
	2	Era of One-Party Dominance	Challenges of Building Democracy; Congress dominance in the first three general elections. Nature of Congress dominance, Congress as social and ideological coalition. Tolerance and management of Factions c) Emergence of opposition parties.

Political Science

Session: 2024-25

Contd. 2

Month	Units / Chapters	Book 1 : Contemporary World Politics	
		Topic	Sub-Topic
July - August	3	Politics of Planned Development	a) Political contestation. Ideas of Development. Planning, Planning Commission b) The Early Initiatives, The First Five Year Plan. Rapid Industrialisation.
	4	India's External Relations	a) International Context b) The Policy of Non-alignment, Nehru's role, Distance from two camps. Afro Asian Unity c) Peace and conflict with China-The Chinese Invasion 1962, War and Peace with Pakistan, Bangladesh War 1971 d) India's Nuclear Policy
Block Test 1			
September	5	Challenges to and Restoration of the Congress	a) Challenges of Political Succession- From Nehru to Shastri, From Shastri to Indira Gandhi b) Fourth General Election 1967- Context of the Election, Non Congressism, Electoral Verdict, Coalitions, Defections c) Split in the Congress- Indira vs the Syndicate, Presidential Election 1969 d) The 1971 Election and Restoration of Congress- The outcome and after, Restoration?
	6	The Crisis of Democratic Order	Background to Emergency-Economic Context. -Gujarat and Bihar Movements- Conflict with Judiciary b) Declaration of Emergency-Crisis and response - Consequences c) Lessons of the Emergency. d) Politics after Emergency. - Lok Sabha Elections 1977 - Janata Government - Legacy

Political Science Session: 2024-25

Contd. 3

Month	Units / Chapters	Book 1 : Contemporary World Politics	
		Topic	Sub-Topic
October - November	7	Regional Aspirations	a) Region and the Nation-Indian Approach, Areas of Tension, Jammu and Kashmir, Roots of the Problem, External and Internal disputes, Politics since 1948, Insurgency and After, 2022 and Beyond b) Punjab c) The Northeast- Demand for autonomy, Secessionist Movements, Movements against outsiders Assam and National integration
	8	Recent Development in Indian Politics	a) Context of 1990s b) Era of Coalition-Alliance Politics c) Political rise if the Backward Classes- Mandal Implemented, Political Fallouts d) Communalism, Secularism and Democracy. - Ayodhya Dispute, Demolition and after e) Emergence of New Consensus f) Lok Sabha Elections 2004 g) Growing Consensus
November	Pre-Board Examination		
Pre-Board Syllabus as prescribed by CBSE			

Psychology Session: 2024-25

Month	Units	Psychology Class 12	
		Topic	Sub-Topic
March & April	4 & 5	Psychological Disorders and Therapeutic Approaches	Concept Of Abnormality: Factors and Models; Classification Of Disorders (DSM V, ICD 10), Characteristics Of Disorders, Major Psychological Disorders: Anxiety, Somatoform, Mood, Dissociative, Childhood Disruptive, Neuro- Developmental, Schizophrenia, Substance abuse. Therapeutic Approaches: Concept, Therapist-Client relationship; Types of Therapies: Psychodynamic, Cognitive Behaviour Therapy, Rational Emotive Therapy, Beck's Cognitive Therapy, Humanistic- Existential Therapy, Client-Centred Therapy, Rehabilitation of mentally ill.
		Project on Case Study	Introduction To Case Study, Format Of Data Taking Data Collection And Report Writing Guidelines
		Practical 1	Assessment of intelligence (IQ) of the subject through Raven's Progressive Matrices(RPM)
UNIT TEST I			
May & June	1	Variations In Psychological Attributes	Individual Differences In Human Functioning Assessment Of Intelligence Theories Of Intelligence: Spearman, Alfred Binet, Thurstone, Howard Gardener, JP Guilford, Robert Sternberg, PASS model Measurement of Intelligence: Concept of IQ, Normal Probability Curve, Types of Intelligence tests, Intellectual Deficiency and Intellectual Giftedness; Special Abilities- Aptitude, Creativity, Emotional Intelligence.
July	2	Practical 2	Assessment of the adjustment level of the subject using the Global Adjustment Scale
		Self And Personality	Personality Nature and Definition, Western and Indian perspective. Major Approaches –Types and Traits. Theories of personality- Psychoanalytic theory by Sigmund Freud, Neo- Freudian theories (Karen Horney, Carl G. Jung, Alfred Adler, Erik Erikson, Erik Fromm), Trait and Type theory (Cattell, Allport, Eyesenck). Friedman and Rosenman's theory of types. Hippocrates and Ayurveda Classification. Approaches to Personality- Behavioural, Cultural and Humanistic. Assessment Of Personality-Self Report (EPQ-R, MMPI, 16PF), Behavioural Rating, Projective Techniques- TAT, Rorschach, DAP, sentence completion, Rosenzweig's picture frustration study.

Psychology Session: 2024-25

Contd. 2

Month	Units	Psychology Class 12	
		Topic	Sub-Topic
Practical 3 - Assessment of personality of the subject using Eysenck's Personality Questionnaire (EPQ-R)			
UNIT TEST II			
August	3	Meeting Life Challenges	Stress- Nature And Definition, Types of Stress: Physiological, Psychological, Environmental; Signs and Symptoms of stress, Effects Of Stress, General Adaptation Syndrome (GAS), Stress & Immune system, Coping with stress, Stress Management Techniques Promoting Positive Health And Wellbeing, Life Skills.
		Practical 4	Assessment of the self-concept of the subject using the Self Concept Questionnaire (SCQ) by RK Saraswat.
BLOCK TEST I			
September	6	Attitude and Social Cognition	Explaining social behaviour, Nature & Components of attitude, Attitude formation and change, Attitude-Behaviour Relationship, Prejudice and Discrimination, Strategies for handling Prejudice
October	7	Social influence and group processes	Nature of groups, Formation of groups, types of groups, Why people join groups, Formation of groups, Stages of group formation, Influence of groups on individuals: Social Loafing, Group Polarization, Bandwagon effect
		Practical 5	Assessment of Attitude of the subject using Sodhi's Attitude Scale
November	Pre - Board Examination		
Pre-Board Syllabus as prescribed by CBSE			

Physical Education Session: 2024-25

Month	Units	Topic	Sub-Topic
April	1	Management of Sporting Event	Function of Sports Events Management (Planning, Organising, Staffing, Directing & Controlling)
			Various Committees & their Responsibilities (Pre, During and Post)
			Fixture and its Procedures- Knock-Out (Bye & Seeding) & League (Staircase, Cyclic & tabular method) and Combination tournament
			Intramural & Extramural tournaments – Meaning, Objectives & Its Significance
			Community sports program (Sports Day, Health Run, Run for Fun, Run for Specific Cause & Run for Unity)
April	2	Children & Women in Sports	Exercise guidelines of WHO for different age groups.
			Common Postural Deformities - Knock Knee, Bow Legs, Flat Foot, Round Shoulders, Lordosis, Kyphosis and Scoliosis and their respective corrective measures.
			Women's participation in Sports – Physical, Psychological, and social benefits.
			Special consideration (Menarche & Menstrual Dysfunction)
			Female Athletes Triad (Osteoporosis, Amenorrhoea, Eating Disorders)
Unit Test 1			
May	3	Yoga as Preventive measures for Lifestyle Disease	Obesity: Procedure, Benefits & Contraindications for Tadasana, Katichakrasana, Pavanmuktasana, Matsayasana, Halasana, Pachimottansana, Ardha – Matsyendrasana, Dhanurasana, Ushtrasana, Surya bhedana pranayama.
			Diabetes: Procedure, Benefits & Contraindications for Katichakrasana, Pavanmuktasana, Bhujangasana, Shalabhasana, Dhanurasana, Suptavajrasana, Paschimottanasana, Ardha-Matsyendrasana, Mandukasana, Gomukasana, Yogmudra, Ushtrasana, Kapalabhati.
			Asthma: Procedure, Benefits & Contraindications for Tadasana, Urdhva hasthasana, Uttana Mandukasana, Bhujangasana, Dhanurasana, Ushtrasana, Vakrasana, Kapalabhati, Gomukhasana, Matsyasana, Anuloma- Viloma

Physical Education Session: 2024-25

Contd. 2

Month	Units	Topic	Sub-Topic
May	3	Yoga as Preventive measures for Lifestyle Disease	Hypertension: Procedure, Benefits & Contraindications for Tadasana, Katichakransan, Uttanpadasana, Ardha Halasana, Sarala Matyasana, Gomukhasana, UttanMandukasana, Vakrasana, Bhujangasana, Makarasana, Shavasana, Nadi-shodhanapranayam, Sitlipranayam.
			Back Pain and Arthritis: Procedure, Benefits & Contraindications of Tadasana, Urdhva hastotanasana, Ardh-Chakrasana, Ushtrasana, Vakrasana, Sarala Matsyendrasana, Bhujangasana, Gomukhasana, Bhadrasana, Makarasana, Nadi-shodhana pranayama
June	4	Physical Education & Sports for Cwsn (Children With Special Needs - Divyang)	Organizations promoting Disability Sports (Special Olympics; Paralympics; Deaflympics)
			Concept of Classification and Divisioning in Sports.
			Concept of Inclusion in sports, its need, and Implementation
			Advantages of Physical Activities for children with special needs
			Strategies to make Physical Activities assessable for children with special needs.
Unit Test 2			
July	5	Sports & Nutrition	Concept of balance diet and nutrition.
			Macro and Micro Nutrients; Food sources & functions.
			Nutritive & Non-Nutritive Components of Diet.
			Eating for Weight control – A Healthy Weight, The Pitfalls of Dieting, Food Intolerance, and Food Myths
			Importance of Diet in Sports-Pre, During and Post competition Requirements
July / August	6	Test & Measurement in Sports	Fitness Test- SAI Khelo India Fitness Test in school:
			<ul style="list-style-type: none"> ❖ Age group 5-8 yrs/class 1-3: BMI, Flamingo Balance Test, Plate Tapping Test, ❖ Age group 9-18 yrs/class 4-12: BMI, 50mt Speed test, 600 mt Run/Walk, Sit & Reach flexibility test, Strength Test (Abdominal Partial Curl Up, Push-Ups for boys, Modified Push-Ups for girls).

Physical Education Session: 2024-25

Contd. 3

Month	Units	Topic	Sub-Topic
			Measurement of Cardio- Vascular Fitness – Harvard Step Test – Duration of the Exercise in Seconds x100/5.5 X Pulse count of 1-1.5 Min after Exercise.
			Computing Basal Metabolic Rate (BMR)
			Rikli & Jones - Senior Citizen Fitness Test
			1. Chair Stand Test for lower body strength
			2. Arm Curl Test for upper body strength
			3. Chair Sit & Reach Test for lower body flexibility
			4. Back Scratch Test for upper body flexibility
			5. Eight Foot Up & Go Test for agility
			6. Six Minute Walk test for aerobic endurance
			Johnson- Methney test of motor educability (Front roll, Jumping half-turn, Jumping full turn.)
Block Test 1			
August	7	Physiology & Injuries in Sports	Physiological factor determining component of Physical Fitness
			Effect of exercise on Muscular System
			Effect of exercise on Cardio - Respiratory System
			Physiological changes due to aging
			Sports injuries: Classification (Soft Tissue Injuries: (Abrasion, Contusion, Laceration, Incision, Sprain & Strain) Bone & Joint Injuries: (Dislocation, Fractures: Green Stick, Comminated, Transverse Oblique & Impacted).
September	8	Biomechanics & Sports	Newton's Law of Motion & its application in sports
			Types of Levers and their application in Sports.
			Equilibrium - Dynamic & Static and Centre of Gravity and its application in sports
			Friction & Sports
			Projectile in Sports.

Physical Education

Session: 2024-25

Contd. 4

Month	Units	Topic	Sub-Topic
October	9	Psychology & Sports	Personality; its definition & types (Jung Classification & Big Five Theory)
			Motivation, its type & techniques
			Exercise Adherence: Reasons, Benefits & Strategies for Enhancing it
			Meaning, Concept & Types of Aggressions in Sports
			Psychological Attributes in Sports - Self Esteem, Mental Imagery, Self Talk, Goal setting
October/ November	10	Training In Sports	Concept of Talent Identification and Talent Development in Sports.
			Introduction to Sports Training cycle - Micro, Meso, Macro Cycle.
			Types and Method to Develop - Strength, Endurance, and Speed
			Type and Method to Develop - Flexibility and Coordinative Ability.
November			Circuit Training - Introduction & its importance
	Pre - Board Examination		
Pre - Board Syllabus as prescribed by CBSE			

Painting Session: 2024-25

Month	Unit	Topic	Sub Topic
March - April	1	Rajput School	Ragasthani School Of Painting: Intro, Main features
			Maru Ragini- Mewar School
			Chaugan Players- Jodhpur School
			Krishna On Swing - Bikaner School
			Radha (Bani Thani)- Kishangarh
	1	Pahari School & Mughal School	Bharat Meet Rama at Chitrakoot- Jaipur
			Krishna With Gopies - Basohli School
Unit Test I			
May	2	Mughal School	Falcon On a Bird Rest - Ustad Mansoor kabir & Raidas- Faquirullah Khan
			Marriage Procession of Dara Shukoh- Haji Madni
June	2	Deccan School	The Deccan School- Intro
			Hazrat Nizamuddin Auliya & Amir Khuhusro
			Chand Bibi Playing Polo
July	2	Bengal School	National Flag of India & Symbolic Significance
			Bengal School - Intro, Features
			Journey's End - Abanindranatha Thakur
Unit Test II			
July	3	Bengal School	Shiva & Sati - Nandalal Bose
August	3	Modern trends (Painting)	Radhika - Chughtai
			Meghdoot- Ram Gopal Vijaivargiya
			Contribution Of Indian Artist, Freedom movement
			Rama Vanquishing the Pride Of Ocean- Ravi Verma
			Mother & Child- Jamini Roy
			Haldi Grinders- Amrita Sher Gill
Block Test I			
September	3	Modern trends (Painting & Graphics)	Mother Teresa- Hussain
			Children- Somnath Hore
			Devi- Jyoti Bhatt
			Of Walls- Anupam Sud
			Man, Woman & Tree- Laxma Goud

Painting Session: 2024-25

Contd. 2

Month	Unit	Topic	Sub Topic
October	3	Modern trends (Graphics & Sculpture)	Triumph Of Labour - D.P Roy Chowdhury
November	3	Modern trends (Graphics & Sculpture)	Cries Un - Heard - Amar Nath Sehgal
			Ganesh - P.V. Janaki Ram
Pre - Board Examination			
Pre-Board Syllabus as prescribed by CBSE			

Legal Studies Session: 2024-25

Month	Unit	Topic	Subtopic
April - May	1	Judiciary	<ul style="list-style-type: none"> i. Structure and Hierarchy of Courts and Legal Offices in India ii. Constitution, Roles and Impartiality iii. Appointments, Retirement and Removal of Judges iv. Tribunals v. Courts and Judicial Review
	2	Alternative Dispute Resolution in India (ADR)	<ul style="list-style-type: none"> i. Adversarial and Inquisitorial Systems ii. Meaning and scope of Alternative Dispute Resolution iii. Arbitration iv. Mediation v. Conciliation vi. Lok Adalats vii. Ombudsman viii. Lokpal and Lokayukta
	3	Topics of Law I (Business Law)	<ul style="list-style-type: none"> i. Law of Contracts ii. Law of Torts iii. Law of Property iv. Intellectual Property Law
UNIT TEST 1			
June	4	Topics in Law II (General laws)	<ul style="list-style-type: none"> i. Law and Sustainable Development ii. Forms of Legal Entities iii. Criminal Laws in India
July-August	5	Concept of Human Rights	<p>Human Rights in India i. Constitutional framework and Related laws in India- Human Rights in India; Preamble, Fundamental Rights, Fundamental Duties, Directive Principles of State Policy, Fundamental Duties</p> <p>Human Rights Violations- Complaint Mechanism (Quasi-Judicial bodies)- Quasi-Judicial Bodies- NHRC- National Commission for Minorities, NCW, National Commission for SCs and STs, NCPCR</p>
UNIT TEST 2			

Legal Studies Session: 2024-25

Contd. 2

Month	Unit	Topic	Subtopic
August	6	International Law	<ul style="list-style-type: none"> i. Introduction to International Law ii. Historical Evolution of International Law iii. What is International Law? iv. Sources of International Law v. International Human Rights vi. International law & Municipal Law vii. International Law & India viii. Dispute Resolution – ICJ, ICC and Other Dispute Resolution Mechanisms
September	7	Legal Profession in India	<ul style="list-style-type: none"> i. The Advocates Act, 1961 ii. Lawyers and Professional Ethics iii. Advertising by Lawyers iv. Opportunities for Law graduates v. Legal Education in India vi. Liberalization and globalization of the Legal Profession vii. Women and Legal Profession in India. viii. Legal Education in India, USA and UK
BLOCK TEST 1			
October - November	8	Legal Services	<ul style="list-style-type: none"> i. Brief History of Legal Services ii. Free Legal Aid under Criminal law iii. Legal Aid by the State iv. Legal Aid under the Indian Constitution v. NALSA Regulations, 2010 vi. Legal Services Authority Act 1987 vii. Legal Aid in te context of Social Justice and Human Rights
November	Pre - Board Examination		
Pre-Board Syllabus as prescribed by CBSE			

Hindustani Music Vocal Session: 2024-25

Month	Unit	Topic	Sub Topic
April	1	Raag- Bhairav	Vilambit & Drut Khayal, Alap- Taan.
		Notation Writing	Writing in notation the composition.
May	2	Theory: Alankar, Kan, Meend, Khatka, Murkee, Gamak.	Brief of the following Alankar, Kan, Meend, Khatka, Murkee, Gamak.
Unit Test I			
June	3	Raag - Bageshri	Vilambit and Drut Khayal, Alap-Taan. Writing in notation and Tarana
July		Theory: Gram, Murchana, Aalap, Taan.	
Unit Test II			
August	4	Raag - Malkauns and Dhamar.	Writing in notation the composition.
Block Test I			
September	5	Taal - Jhaptal, Rupak, Dhamar, Historical development of Time Theory of Ragas.	Description of Taals along with Taal Notation and Time theory in Raga has involved in hindustani classical music.
October	6	Sangeet Ratnakar, Sangeet Parijat, Faiyaz Khan, Bade Gulam Ali Khan	
November	7	Krishna Rao, Shankar Pandit, Tuning of Tanpura	
	8	Recognition of Ragas, Revision, Practical File.	Life Sketch and Contribution in Hindustani music.
Pre - Board Examination			
Pre-Board Syllabus as prescribed by CBSE			