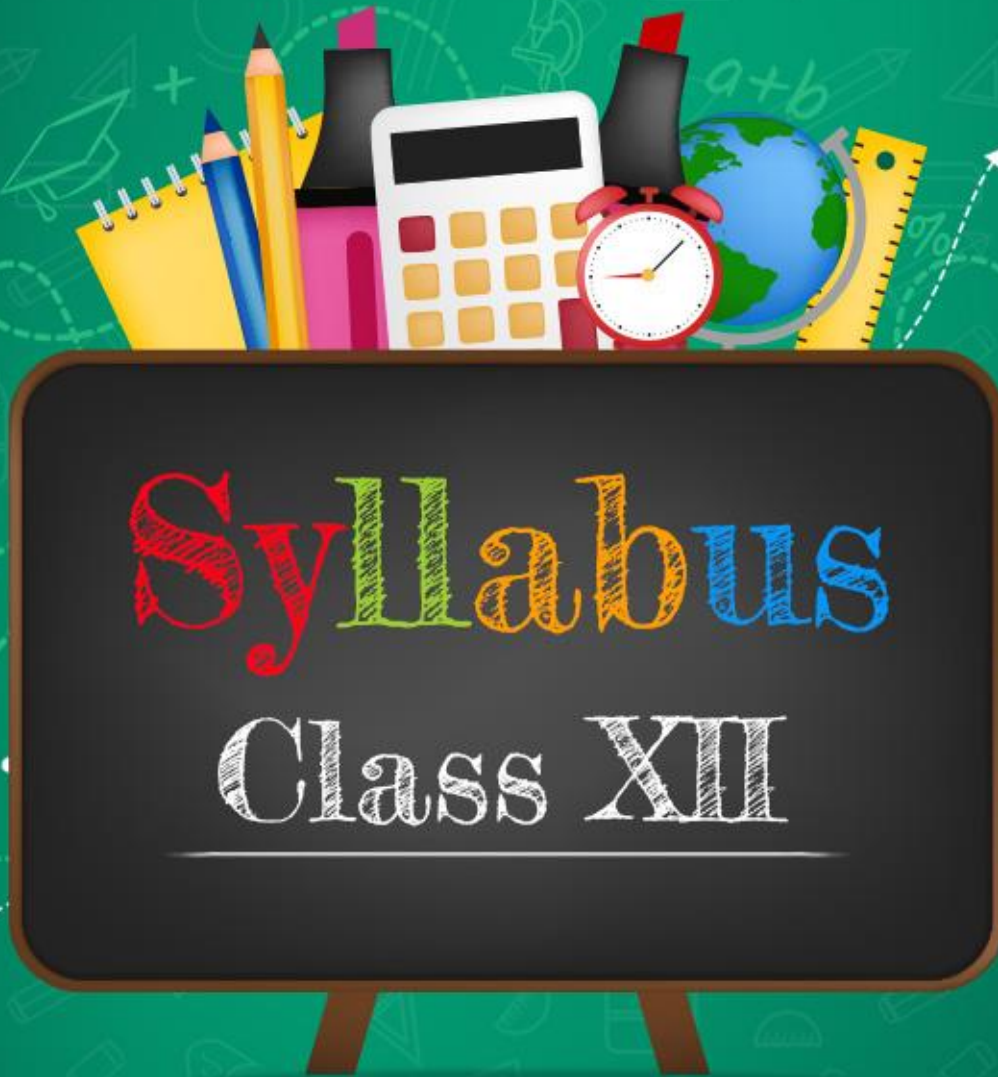




RUBY PARK PUBLIC SCHOOL





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ENGLISH

MONTH	UNIT	READING	WRITING	LITERATURE
APRIL	1	Comprehension exercises from Literary Passages	Notice writing	My Mother at Sixty-Six (Poem) The Last Lesson
MAY	2	Comprehension exercises from Literary Passages (contd.)	Notice writing (contd.)	The Third Level The Lost Spring
JUNE	UNIT TEST 1			
JUNE	3	Cased Based passages ASL	Invitation Letter to Editor	Deep Water The Tiger King Keeping Quiet Journey to the End of the Earth
JULY	4	Comprehension exercises from Discursive Passages	Job Application Article Writing	The Rattrap Indigo A Thing of Beauty (poem) The Enemy
JULY	UNIT TEST 2			
AUGUST	4	Comprehension exercises from Factual Passages	Report Writing	Going Places On the Face of it
AUGUST	REVISION OF BLOCK TEST I			



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AUGUST, SEPTEMBER		BLOCK TEST I		
SEPTEMBER	5	Comprehension exercises from Analytical Passages	Revision of Writing Skill	Poets and Pancakes The Interview
OCTOBER	6	Revision	Revision of Writing Skill	Memories of Childhood A Roadside Stand (poem)
NOVEMBER	7	ASL	Revision of Writing Skill	Aunt Jennifer's Tigers (poem)
NOVEMBER	REVISION			
NOVEMBER, DECEMBER	PRE-BOARD EXAMINATION			



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PHYSICS



MONTH	CHAPTER	TOPICS	SUBTOPICS
APRIL	I & II	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.



			<p>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)</p>
MAY	IX	RAY OPTICS	<p>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.</p>
			<p>Refraction of light through a prism.</p>
			<p>Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.</p>
MAY - JUNE	REVISION AND UNIT TEST 1		



JUNE	III	CURRENT ELECTRICITY	Electric current, flow of electric charges in a metallic conductor, drift velocity and mobility, and their relation 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.
			Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel.
			Kirchhoff 's laws . Wheatstone bridge



<p>JUNE</p>	<p>IV & V</p>	<p>Magnetic Effects of Current and Magnetism</p>	<p>Concept of magnetic field, Oersted's experiment. Biot - Savart law and its application to current carrying circular loop.</p> <p>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.</p> <p>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.</p> <p>Moving coil galvanometer- its current and voltage sensitivity and conversion to ammeter and voltmeter.</p>
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			<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>
JULY	VI & VII	Electromagnetic Induction and Alternating Currents	<p>Electromagnetic induction; Faraday's law, induced emf and current; Lenz's Law, Self and mutual inductance.</p> <p>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.</p>
JULY- AUGUST	REVISION AND UNIT TEST II		



AUGUST	VIII	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.
AUGUST	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).
AUGUST - SEPTEMBER	REVISION AND BLOCK TEST 1		
SEPTEMBER	XI	Photoelectric Effect (Dual nature of radiation and matter)	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.
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;
NOVEMBER- DECEMBER	REVISION AND PREBOARD EXAMINATION 1		
DECEMBER - JANUARY	PREBOARD EXAMINATION 2		



MONTH	UNIT	TOPIC	SUB TOPIC
APRIL	I	Solutions	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
MAY	I	Solutions	Determination of molecular masses using colligative properties Abnormal molecular mass, Van't Hoff factor
	II	Electrochemistry	Conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration. Kohlrausch's Law.
JUNE	UNIT TEST-I		
	II	Electrochemistry	EMF of a cell, standard electrode potential Nernst equation and its application to chemical cells. Relation between Gibbs energy change and EMF of a cell. Electrolysis and laws of electrolysis (elementary idea). Electrolytic cells and Galvanic cells, Lead accumulator Dry cell, Fuel cells; corrosion.



	III	Chemical Kinetics	<p>Rate of a reaction (average and instantaneous)</p> <p>Factors affecting rates of reaction. Order and molecularity of a reaction</p> <p>Rate law and specific rate constant, integrated rate equations and half-life (only for zero and first order reactions)</p> <p>Activation energy, Arrhenius equation</p> <p>Concept of collision theory (elementary idea, no mathematical treatment)</p>
	VI	Haloalkanes & Haloarenes	<p>Haloalkanes: Nomenclature, nature of C-X bond, physical and chemical properties, mechanism of substitution reactions. Optical isomerism.</p> <p>Haloarenes: Nature of C-X bond, substitution reactions (directive influence of halogen for monosubstituted compounds only).</p> <p>Uses and environmental effects of dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.</p>
JULY	VII	Alcohols, Phenols & Ethers	<p>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.</p> <p>Phenols: Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophilic substitution reactions, uses of phenols.</p> <p>Ethers: Nomenclature, methods of preparation, physical and chemical properties, uses.</p>
UNIT TEST-II			



	VIII	Aldehydes, Ketones & Carboxylic Acids	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		
SEPTEMBER	IX	Amines	Preparation, physical and chemical properties, uses, identification of primary secondary and tertiary amines. Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.
	IV	d - & f - Block Elements	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.
OCTOBER	V	Coordination Compounds	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).



	X	Biomolecules	<p>Carbohydrates – Classification (aldoses and ketoses), monosaccharide (glucose and fructose), D-L configuration, oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen): importance of carbohydrates.</p> <p>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.</p> <p>Vitamins – Classification and functions.</p> <p>Nucleic Acids: DNA and RNA</p>
NOVEMBER	REVISION		
DECEMBER	PRE-BOARD EXAMINATION		
JANUARY	PRACTICE TEST		



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BIOLOGY

MONTH	UNIT	TOPICS
APRIL	REPRODUCTION	SEXUAL REPRODUCTION IN FLOWERING PLANTS
MAY	REPRODUCTION	HUMAN REPRODUCTION
JUNE	UNIT TEST I	
JUNE	REPRODUCTION	REPRODUCTIVE HEALTH
	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
	BIOLOGY IN HUMAN WELFARE	HUMAN HEALTH AND DISEASES
JULY- AUGUST	UNIT TEST II	
AUGUST	BIOTECHNOLOGY	BIOTECHNOLOGY: PRINCIPLES



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		AND PROCESS
AUGUST- SEPTEMBER	BLOCK TEST I	
SEPTEMBER	BIOTECHNOLOGY	BIOTECHNOLOGY AND ITS APPLICATION
	ECOLOGY	ORGANISMS AND POPULATION
OCTOBER	ECOLOGY	ECOSYSTEMS
		BIODIVERSITY AND CONSERVATION
NOVEMBER	REVISION	
DECEMBER	PRE - BOARD EXAMINATION	
JANUARY	PRACTICE TEST	



MATHEMATICS

MONTHS	TOPICS	SUBTOPICS
APRIL-MAY	Relations and Functions	Types of relations: reflexive, symmetric, transitive and equivalence relations.
		One to one and onto functions.
JUNE	UNIT TEST 1	
JUNE	Inverse Trigonometric Functions	Definition, range, domain, principal value branch.
		Graphs of inverse trigonometric functions.
	Continuity & Differentiability	Continuity, Differentiability, 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. Logarithmic differentiation, derivative of functions expressed in parametric forms. Second order derivatives.
Applications of Derivatives	Applications of derivatives: rate of change of quantities, increasing/ decreasing functions,	
JULY	Applications 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).
JULY	Matrices and Determinants	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



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		inverse, if it exists; (Here all matrices will have real entries).
		Determinant of a square matrix (up to 3 x 3 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

JULY	UNIT TEST2
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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	<p>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.</p> <p style="text-align: center;"> $\int \frac{ax+b}{x^2+c}, \int \frac{ax+b}{\sqrt{x^2+c}}, \int \frac{ax+b}{\sqrt{c-x^2}}, \int \frac{ax+b}{x^2+px+q}, \int \frac{ax+b}{\sqrt{x^2+px+q}}, \int \frac{ax+b}{\sqrt{c-x^2}}$ </p> <p style="text-align: center;"> $\int \sqrt{x^2+c}, \int \sqrt{c-x^2}, \int \sqrt{x^2+px+q}$ </p> <p>Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals.</p>

AUGUST	REVISION FOR BLOCK TEST 1
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AUGUST- SEPTEMBER	BLOCK TEST 1	
SEPTEMBER- OCTOBER	Probability	Conditional probability, multiplication theorem on probability, independent events, total probability, Bayes' theorem, Random variable and its probability distribution, mean of random variable.
	Applications of the Integrals	Applications in finding the area under simple curves, especially lines, circles/ parabolas/ellipses (in standard form only)
OCTOBER- NOVEMBER	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: $\frac{dy}{dx} + P(x)y = Q(x), \text{ where } P = P(x), Q = Q(x).$ $\frac{dy}{dx} + P(x)y = Q(x), \text{ where } P = P(x), Q = Q(x).$
NOVEMBER	REVISION	
DECEMBER	PRE BOARD EXAMINATION	



ECONOMICS

MONTH	TOPIC	SUB-TOPIC
MARCH	Circular Flow Of Income and Basic Concepts Of Macroeconomics	Stock and flow, Real flow and money flow, Circular flow of income in a two sector economy, Consumption goods, capital goods, final goods, intermediate goods; stocks and flows; gross investment and depreciation.
APRIL	GDP And Welfare	Nominal GDP and Real GDP. Limitations of treating GDP as an indicator of welfare
	Methods of calculating National Income - Value Added or Product method	Steps involved in calculating, Precautions, Numericals, Problems of double counting.
	Methods of calculating National Income - Income method	Steps involved in calculating National Income, Precautions of calculating National income through income method, Numerical, Concepts of Compensation of Employees, Operating Surplus, Mixed Income.
MAY	Methods of calculating National Income -Expenditure Method	Steps involved in calculating National Income, Precautions of calculating National income through expenditure method, Numerical, Concepts of Private final Consumption Expenditure, Government Final consumption expenditure, Gross domestic capital formation, Net Exports.



	Indian economy on the eve of independence	Performance of agriculture, industry during British rule. Foreign Trade and demographic profile during British Rule. Occupational structure during British Rule. State of infrastructure during British rule.
	Indian economic system and common goals of five year plans	Indian economic system and common goals of Five Year Plans. Main features, problems and policies of agriculture (institutional aspects and new agricultural strategy), industry (IPR 1956; SSI – role & importance) and foreign trade.
JUNE	UNIT TEST-1	
	Features and appraisals of liberalisation,	Reasons for introducing NEP, Financial Sector Reforms, Tax Reforms, Foreign Exchange Reforms, Trade and Investment Policy Reforms.
	Globalisation and Privatisation (LPG policy), concepts of demonetization and GST	Meaning of globalisation, outsourcing, World Trade Organisation , Reforms in agriculture, Reforms in Industry, Disinvestment.
	Money and Banking	M1 measure of money supply, suppliers of money in an economy, Process of credit creation with concept of Legal Reserve Ratio. RBI'S method of regulating money supply in an economy with its quantitative (Repo



		rate, Reverse repo rate, bank rate, CRR, SLR. OMO) and qualitative (Margin Requirement) tools.
JULY	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.
JULY- AUGUST	UNIT TEST-II	
AUGUST	Government Budget and the Economy.	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 government deficits.
	Determination of Income and Employment	Aggregate demand and its components, Propensity to consume and save, short-run equilibrium output, investment multiplier and its mechanism. Meaning of full employment and underemployment, problems of



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		deficient and excess aggregate demand measures to correct them- changes in government spending , taxes and money supply.
AUGUST- SEPTEMBER	REVISION AND BLOCK TEST-1	
SEPTEMBER	Sustainable Development	Meaning, effects of economic development on resources and environment and global warming.
	Development experience of India-A comparison with neighbours	Comparison of India with China and Pakistan on issues of economic growth, population, sectoral development and other human development indicators.
OCTOBER	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 free market, merits and demerits of fixed and flexible exchange rate. Managed Floating exchange rate.
NOVEMBER	PRE-BOARD-1	
DECEMBER	PRE-BOARD-2	



ACCOUNTANCY

MONTH	TOPIC	SUBTOPIC
APRIL	Company Accounts	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 Balance Sheet Representation as per Schedule III of Companies Act 2013 of Shareholders Fund (including pro rata)
	Company Accounts	Pro Rata allotment and balance sheet representation continued 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
	Analysis of Financial Statements	Financial Statements of Company (Representation of Balance Sheet and Statement of Profit and Loss according to Schedule III)
MAY	Analysis of Financial Statements	Comparative Statement and Common size statement. Ratio Analysis -Liquidity, Solvency ratios
JUNE	UNIT TEST I	
	Analysis of Financial Statements	Ratio Analysis-Activity and Profitability Ratios Cash Flow Statement
JULY	Financial statement	Cash Flow Statement



	Analysis	
	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
JULY- AUGUST	UNIT TEST II	
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 a new balance sheet.
AUGUST- SEPTEMBER	BLOCK TEST-I	
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
	Partnership	Dissolution of a firm along with Memorandum Balance Sheet and Journal Entries.



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NOVEMBER	PRE BOARD I
DECEMBER	PRE BOARD II



BUSINESS STUDIES

MONTH	TOPIC	SUBTOPIC
APRIL	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
	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, Demonetisation
	Marketing Management	Marketing Management - Meaning, Functions and Marketing Philosophies and Marketing Mix Introduction
MAY	Marketing Management	Marketing Mix -Product, Price, Place and Promotion along with Public Relations
JUNE	UNIT TEST I	
	Financial Management	Definition of Financial Management, Three important decisions- Meaning and Factors affecting 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
JULY- AUGUST	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
AUGUST- SEPTEMBER	BLOCK TEST I	
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
	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	Concept, Importance, Process of Controlling, Relationship between Planning and Controlling.
NOVEMBER	PRE-BOARD I	
DECEMBER	PRE-BOARD II	



ENTREPRENEURSHIP

MONTH	TOPIC	SUBTOPIC
APRIL	Entrepreneurial Opportunity	<ol style="list-style-type: none"> 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
	Enterprise Planning	<ol style="list-style-type: none"> 1. Type of economic activities 2. Forms of business organizations
MAY	Enterprise Planning	<ol style="list-style-type: none"> 3. Business Plan 4. Format of Business Plan 5. Formalities required for starting a business
JUNE	UNIT TEST 1	
	Enterprise Marketing	<ol style="list-style-type: none"> 1. What are Goal setting and Smart Goals 2. Various marketing strategies used in a firm 3. Understanding in detail 4 P's in marketing 4. Understanding the concepts of Brand, Logo and



		Tagline
JULY	Enterprise Marketing	<p>5. Meaning and methods of negotiation</p> <p>6. Understanding the importance of employees, customer and vendor</p> <p>7. Understanding the importance of quality in customer satisfaction</p> <p>8. Various reasons for business failures</p>
	Enterprise Growth Strategies	<p>1. Detail about franchising and its types</p> <p>2. How growth of firm possible through merger and acquisition</p>
JULY- AUGUST	UNIT TEST II	
AUGUST	Enterprise Growth Strategies	<p>3.Types and meaning of mergers and acquisitions</p> <p>4. Understand the reasons for mergers and acquisitions</p> <p>5.Understand the reasons for failure of mergers and acquisitions</p> <p>6.Concept of value addition</p> <p>7. Meaning of value chain and requirement of value chain management</p>
AUGUST- SEPTEMBER	BLOCK TEST I	
SEPTEMBER	Business Arithmetic	<p>1. Concept of Unit price,</p> <p>2. Break even point and its calculations</p>



		3. Meaning of Inventory control and E.O.Q
OCTOBER	Business Arithmetic	4. Meaning of cash flow projection and concept of working capital 5. Terminologies of Financial management and budgets 6. Concept and calculation of Return on Investment and Return on Equity
	Resource Mobilisation	1. Understand the need of finance in Business 2. Discuss the various sources of funds required for a firm 3. Understand the ways of raising funds in primary market 4. Angel Investors and Venture capitalists- Features and funding
NOVEMBER	PRE BOARD I	
DECEMBER	PRE BOARD II	



COMPUTER SCIENCE

MONTH	TOPIC	SUB-TOPIC
MARCH	Python Revision Tour - I	Tokens in Python
		Variables and Assignments
		Simple Input and Output
		Data Types
		Mutable and Immutable Types
		Expressions
APRIL	Python Revision Tour- II	Statement Flow Control
		Looping Statements
		Strings in Python
	Working with Functions	Lists in Python
		Tuples in Python Dictionaries in Python
		Sorting Techniques
MAY	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, keyword parameters
	Using Python Libraries	Function returning value(s), flow of execution, scope of a variable (global scope, local scope), Programs in user defined functions
MAY - JUNE	Using Python Libraries	Using Python libraries using import and from statements, built-in functions of math module (ceil, floor, pow, sqrt, fabs, sin, cos, tan), random module (random, randint, randrange), statistics module (mean, mode, median)
		UNIT TEST - I
JUNE	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



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		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
JULY		CSV file: import csv module, open/ close csv file, write into a csv file using writer(), writerow(), writerows(), and read from a csv file using reader()
	Exception Handling	Introduction, handling exceptions using try – except block, finally keyword.

JULY - AUGUST	UNIT TEST – II	
AUGUST	Data Structure 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)
		Structured Query Language: introduction, Data Definition Language and Data Manipulation Language, datatype (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, equijoin and natural join
AUGUST	REVISION FOR BLOCK TEST - I	
AUGUST - SEPTEMBER	BLOCK TEST - I	
SEPTEMBER	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, use of %s format specifier or format() to perform queries
OCTOBER	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



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		Introduction to web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting
		Introduction to web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting
NOVEMBER	REVISION FOR PRE - BOARD - I	
NOVEMBER -DECEMBER	PRE - BOARD - I	
DECEMBER - JANUARY	PRE - BOARD - II	



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HISTORY

MONTH	UNIT	TOPICS/THEMES
APRIL	1	Bricks, Beads and Bones The Harappan Civilisation
	2	Kings, Farmers and Towns Early States and Economies
	3	Kingship, Caste and Class Early Societies
MAY	4	Thinkers, Beliefs and Buildings
MAY - JUNE	UNIT TEST I	
JUNE	5	Through the Eyes of Travellers: Perceptions of Society
JULY	6	Bhakti-Sufi Traditions: Changes in Religious Beliefs and Devotional tests
	7	An Imperial Capital: Vijaynagara
JULY - AUGUST	UNIT TEST II	
AUGUST	8	Agrarian Society and the Mughal Empire
	9	Colonialism and the country side: Exploring Official Archives
AUGUST	REVISION FOR BLOCK TEST I	



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BLOCK TEST - I		
AUGUST- SEPTEMBER		
SEPTEMBER	10	Rebels and the Raj: 1857 Revolt and its Representations
OCTOBER	11	Mahatma Gandhi and the Nationalist Movement
NOVEMBER	12	Framing the Constitution: The Beginning of a New Era
NOVEMBER	REVISION FOR PRE-BOARD I	
NOVEMBER- DECEMBER	PRE-BOARD - I	
DECEMBER- JANUARY	PRE-BOARD - II	



GEOGRAPHY



FUNDAMENTALS OF HUMAN GEOGRAPHY [PART-A]			
MONTH	UNIT	TOPIC	SUBTOPIC
APRIL	I	Human Geography	Nature and scope
MAY	II A	People	Population-distribution, density and growth. Population change- Components of population change, Demographic transition.
JUNE	II B	People	Human development - concept; selected indicators, international comparisons
UNIT TEST 1			
JULY	III A	Human 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
	III B	Human 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
	III C	Human Activities	Tertiary Activities-Concept; Trade, Transport And Tourism; Services; People Engaged In Tertiary Activities - Some Examples From Selected Countries
UNIT TEST 2			
AUGUST	III D	Human Activities	Quaternary Activities-Concept; People Engaged In Quaternary Activities - Case Study From Selected



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			Countries
BLOCK TEST 1			
SEPTEMBER	IV A	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	V	International Trade	International Trade- Bases And Changing Patterns; Ports As Gateways Of International Trade
NOVEMBER	V	International Trade	Role Of WTO in International Trade
DECEMBER	PRE BOARD		



POLITICAL SCIENCE

MONTH	UNIT	TOPICS/THEMES
APRIL	1	THE END OF BIPOLARITY
	2	CONTEMPORARY CENTRES OF POWER
	3	CONTEMPORARY SOUTH ASIA
MAY	4	INTERNATIONAL ORGANIZATIONS
UNIT TEST I		
JUNE	5	SECURITY IN THE CONTEMPORARY WORLD
JULY	6	ENVIRONMENT AND NATURAL RESOURCES
	7	GLOBALISATION
	8	CHALLENGES OF NATION BUILDING
UNIT TEST II		
AUGUST	9	END OF ONE PARTY DOMINANCE
	10	POLITICS OF PLANNED DEVELOPMENT
	11	INDIA'S EXTERNAL RELATIONS
SEPTEMBER	12	CHALLENGES TO AND RESTORATION OF THE CONGRESS SYSTEM
	13	THE CRISIS OF DEMOCRATIC ORDER
BLOCK TEST I		
OCTOBER	14	REGIONAL ASPIRATIONS
NOVEMBER	15	RECENT DEVELOPMENTS IN INDIAN POLITICS
DECEMBER	PRE-BOARD	



PSYCHOLOGY

MONTH	UNIT	TOPICS
APRIL	IV	Psychological Disorders
MAY	V	Therapeutic Approaches
JUNE	UNIT TEST- I	
JUNE-JULY	I	Variation In Psychological Attributes
	II	Self and Personality
JULY-AUGUST	UNIT TEST- II	
AUGUST	III	Meeting Life Challenges
AUGUST-SEPTEMBER	BLOCK TEST- I	
SEPTEMBER	VI	Attitude and Social Cognition
OCTOBER	VII	Social Influence and Group Processes
NOVEMBER	REVISION	
NOVEMBER- DECEMBER	PRE-BOARD-I	
DECEMBER- JANUARY	PRE- BOARD- II	



PHYSICAL EDUCATION

MONTH	UNIT	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)
MAY	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)
JUNE	UNIT TEST 1		
JUNE	3	Yoga as Preventive measures for	Obesity: Procedure, Benefits & Contraindications for Tadasana, Katichakrasana, Pavanmuktasana, Matsayasana, Halasana, Pachimottansana, Ardha – Matsyendrasana, Dhanurasana, Ushtrasana, Surya bhedana Pranayama.



		<p>Lifestyle Disease</p>	<p>Diabetes: Procedure, Benefits & Contraindications for Katichakrasana, Pavanmuktasana, Bhujangasana, Shalabhasana, Dhanurasana, Supta-Vajrasana, Paschimottanasana, Ardha-Matsyendrasana, Mandukasana, Gomukasana, Yogmudra, Ushtrasana, Kapalabhati.</p> <p>Asthma: Procedure, Benefits & Contraindications for Tadasana, Urdhva hasthasana, Uttana Mandukasana, Bhujangasana, Dhanurasana, Ushtrasana, Vakrasana, Kapalabhati, Gomukhasana, Matsyasana, Anuloma- Viloma</p> <p>Hypertension: Procedure, Benefits & Contraindications for Tadasana, Katichakrasana, Uttanpadasana, Ardha Halasana, Sarala Matyasana, Gomukhasana, Uttan Mandukasana, Vakrasana, Bhujangasana, Makarasana, Shavasana, Nadi-Shodhanapranayam, Sitlipranayam.</p> <p>Back Pain and Arthritis: Procedure, Benefits & Contraindications of Tadasana, Urdhawahastootanasana, Ardh-Chakrasana, Ushtrasana, Vakrasana, Sarala Maysyendrsana, Bhujangasana, Gomukhasana, Bhadrasana, Makarasana, Nadi-shodhana Pranayama</p>
<p>JULY</p>	<p>4</p>	<p>Physical Education & Sports For CWSN (Children With Special Needs - Divyang)</p>	<p>Organizations promoting Disability Sports (Special Olympics; Paralympics; Deaflympics)</p> <p>Concept of Classification and Divisioning in Sports.</p> <p>Concept of Inclusion in sports, its need, and Implementation</p> <p>Advantages of Physical Activities for children with special needs</p> <p>Strategies to make Physical Activities accessible for children with special needs.</p>



JULY	UNIT TEST 2		
AUGUST	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
AUGUST	6	Test & Measurement In Sports	Fitness Test- SAI Khelo India Fitness Test in school: n Age group 5-8 yrs/class 1-3: BMI, Flamingo Balance Test, Plate Tapping Test, n Age group 9-18 yrs/ class 4-12: BMI, 50mt Speed test, 600 mts. Run/ Walk, Sit & Reach flexibility test, Strength Test (Abdominal Partial Curl Up, Push-Ups for boys, and Modified Push-Ups for girls).
			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)
			Johnson- Methney test of motor educability (Front roll, Jumping half- turn, Jumping full turn.)
AUGUST	REVISION OF BLOCK TEST-I		
AUGUST/	BLOCK TEST-I		



SEPTEMBER			
SEPTEMBER	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, Comminuted, 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.
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	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.



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CBSE

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			Circuit Training - Introduction & its importance
NOVEMBER	REVISION		
NOVEMBER / DECEMBER	PRE-BOARD EXAM		



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PAINTING

MONTH	Units	Topic	Sub Topic (Theory)	Practical
APRIL	1	Rajput School	Rajasthani School Of Painting: Intro, Main features MaruRagini- Mewar School Chaugan Players- Jodhpur School Krishna On Swing- Bikaner School Radha (BaniThani)- Kishangarh Bharat Meet Rama At Chitrakoot- Jaipur	Miniature painting
MAY	1	Pahari & Mughal School	Pahari School Of Painting- Intro, Main features Krishna With Gopies- Basohli School Mughal School- Intro, Main Features Krishna Lifting Mount Govardhana- Miskin	Still Life
JUNE	2	Mughal School	Falcon On A Bird Rest- Ustad Mansoor Kabir & Raidas- Faquirullah Khan Marriage Procession Of Dara Shukoh- Haji Madni The Deccan School- Intro	Copy Painting-1
UNIT TEST-I				
JULY	2	Deccan School	Hazrat Nizamuddin Auliya & Amir Khuhusro Chand Bibi Playing Polo National Flag Of India & Symbolic Significance Revision	Copy Painting-1
UNIT TEST-II				
AUGUST	3	Bengal School	Bengal School- Intro, Features Journey's End- Abanindranatha Thakur Shiva & Sati- Nandalal Bose Radhika- Chughtai Meghdoot- Ram Gopal Vijaivargiya Contribution Of Indian Artist,	Nature and Object Study



			Freedom movement	
			BLOCK TEST-I	
SEPTEMBER	3	Painting	Rama Vanquishing The Pride Of Ocean- Ravi Verma Mother & Child- Jamini Roy Haldi Grinders- Amrita Sher Gill Mother Teresa- Hussain	Painting Composition
OCTOBER	3	Graphics Graphics & Sculpture	Children- SomnathHore Devi- Jyoti Bhatt Of Walls- AnupamSud Man, Woman & Tree- LaxmaGoud Triumph Of Labour- D.P Roy Chowdhury	Painting Composition
NOVEMBER	3	Sculpture	Santhal Family- RamkinkarVaij Cries Un- Heard- Amar NathSehgal Ganesh- P.V. Janaki Ram	Portfolio Assessment
PRE-BOARDS-I				
DECEMBER	PRE-BOARDS-II			