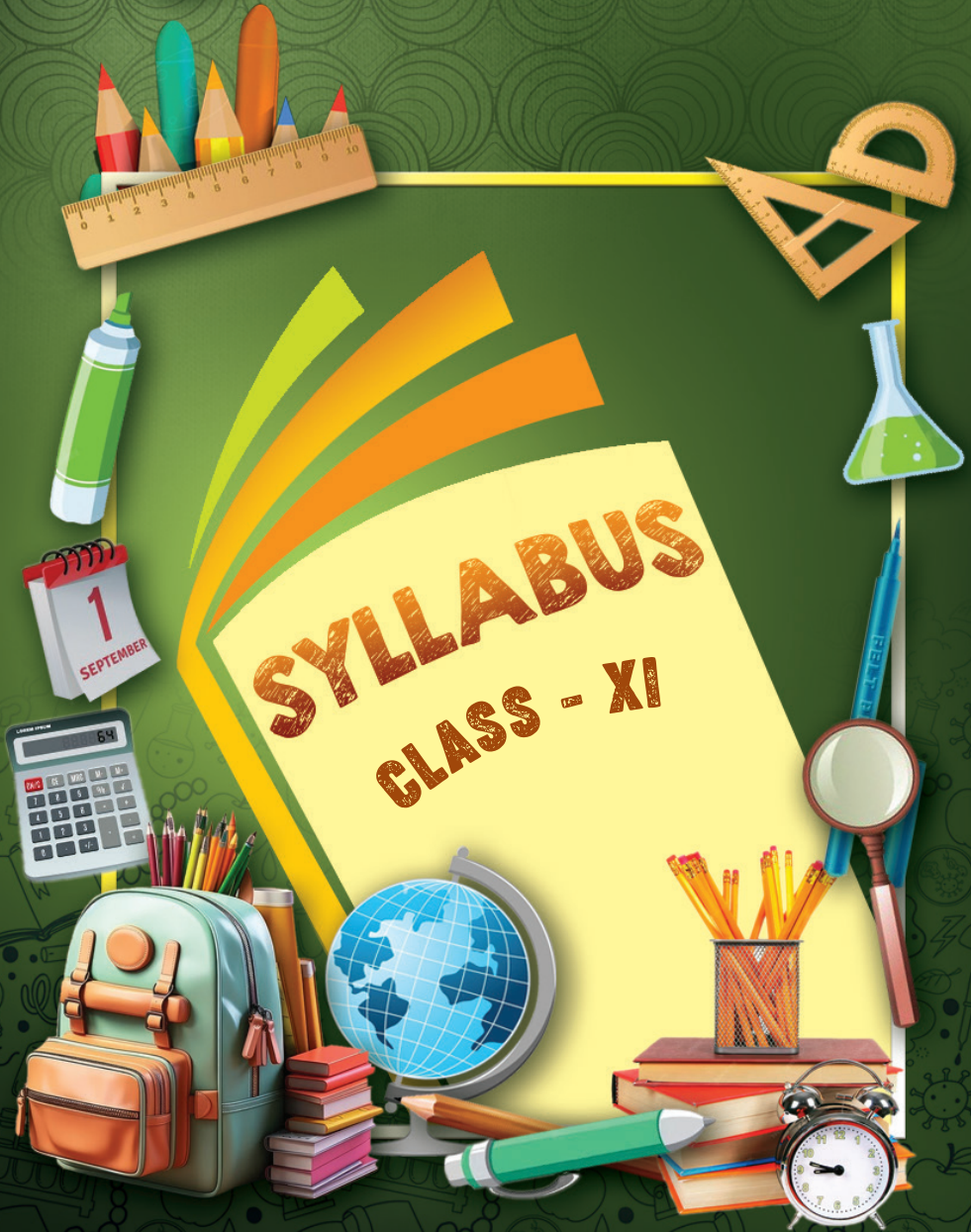




DELHI PUBLIC SCHOOL RUBY PARK, KOLKATA



English Session: 2024-25

Month	Month/ Unit	Reading	Writing	Grammar	Literature
April	1	Comprehension from factual and discursive passages	Poster Making	Do as directed	The Portrait of a Lady
				Tenses and usage / gap filling exercise	A Photograph (Poem)
Unit Test - I					
May	2	Listening & Speaking	Classified Advertisement	Tenses and usage / gap filling exercise	The Summer of the Beautiful White Horse
June	3	Note Making & Summarizing	Speech / Debate	Re-ordering of sentences /Trans formation of sentences	We're Not Afraid to Die
Unit Test - II					
July	4	Note Making & Summarizing	Classified Advertisement	Integrated Exercises	Discovering Tut
					The Laburnum Top (poem)
August	5	ASL	Speech	Transformation of sentences	The Address
			Debate		The Voice of the Rain (Poem)
Block Test - I					
October	6	Summary Writing	Poster	Clauses-Nominal, Relative, Adverbial	Father to Son (Poem)
November	7	ASL		Advertisement	Exercises on identification of clauses
			Mother's Day		
			Birth		
Unit Test - III					
December	8	ASL	Speech	Tenses	The Adventure
					Silk Road
January	9	Note Making	Debate	Cloze passage	The Tale of Melon City (Poem)
		Summarizing			
February	Block Test -II				

Mathematics

Session: 2024-25

Month	Topics	Subtopics
April	Sets	Sets and their representations, Empty set, Finite and Infinite sets, Equal sets, Subsets, Subsets of a set of real numbers especially intervals (with notations). Universal set. Venn diagrams. Union and Intersection of sets. Difference of sets. Complement of a set. Properties of Complement.
	Relations and Functions	Ordered pairs. Cartesian product of sets. Number of elements in the Cartesian product of two finite sets. Cartesian product of the set of reals with itself (up to $R \times R \times R$). Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. Function as a special type of relation. Pictorial representation of a function, domain, co-domain and range of a function. Real valued functions, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum, exponential, logarithmic and greatest integer functions, with their graphs. Sum, difference, product and quotients of functions.
	Trigonometry	Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another.
May	Unit Test - 1	
May-June	Trigonometric Functions	Definition of trigonometric functions with the help of unit circle. Truth of the identity, $\sin^2 x + \cos^2 x = 1$ for all x . Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs. Expressing $\sin(x \pm y)$ and $\cos(x \pm y)$ in terms of $\sin x$, $\sin y$, $\cos x$, $\cos y$, and their simple applications
July	Complex numbers and Quadratic equations	Need for complex numbers, especially i , to be motivated by inability to solve some of the quadratic equations. Algebraic properties of complex numbers. Argand plane.
	Linear Inequalities	Linear inequalities. Algebraic Solutions of linear inequalities in one variable and their representation on the number line.
July	UNIT TEST - 2	
August	Sequence and Series	Arithmetic Mean (A.M.), Geometric Progression (G.P), general term of a G.P, sum of n terms of a G.P, infinite G.P and its sum, geometric mean (G.M.), relation between A.M. and G.M.
	Straight Lines	Brief recall of two-dimensional geometry from earlier classes. Slope of a line and angle between two lines. Various forms of equations of a line: parallel to axis, point -slope form, slope-intercept form, two-point form, intercept form, Distance of a point from a line.
August	BLOCK TEST - 1	

Mathematics

Session: 2024-25

Contd. 2

Month	Topics	Subtopics
September	Permutation and combination	Fundamental principle of counting. Factorial n . ($n!$). Permutations and combinations, derivation of Formulae for nP_r and nC_r and their connections, simple applications.
October	Binomial Theorem	Historical perspective, statement and proof of the binomial theorem for positive integral indices. Pascal's triangle, simple applications.
November	Conic Sections	Sections of a cone: Circles, Ellipse, Parabola, Hyperbola, a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section. Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equation and simple properties of Hyperbola. Standard equation of a circle.
	Introduction to Three-dimensional Geometry	Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points.
November	Unit Test - 3	
December	Probability	Events; occurrence of events, 'not', 'and' and 'or' events, exhaustive events, mutually exclusive events, Axiomatic (set theoretic) probability, connections with other theories of earlier classes. Probability of an event, probability of 'not', 'and' and 'or' events.
	Statistics	Measures of Dispersion: Range, Mean deviation, variance and standard deviation of ungrouped/grouped data.
January	Limits and Derivatives	Derivative introduced as rate of change both as that of distance function and geometrically. Intuitive idea of limit. Limits of polynomials and rational functions trigonometric, exponential and logarithmic functions. Definition of derivative relate it to slope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.
February	Block Test - 2	

Physics

Session: 2024-25

Month	Chapter	Topics	Sub Topics
April	I & II	Physical World, units and Measurement	Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. significant figures. Dimensions of physical quantities, dimensional analysis and its applications.
	III	Motion in a Straight line	Frame of reference, Motion in a straight line, Elementary concepts of differentiation and integration for describing motion
May	Unit Test - I		
	III	Motion in a Straight line	uniform and non- uniform motion, and instantaneous velocity, uniformly accelerated motion, velocity - time and position-time graphs. Relations for uniformly accelerated motion (graphical treatment).
June	IV	Motion in a Plane	Scalar and vector quantities; position and displacement vectors, general vectors and their notations; equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors, Unit vector; resolution of a vector in a plane, rectangular components, Scalar and Vector product of vectors.
			Motion in a plane, cases of uniform velocity and uniform acceleration, projectile motion, uniform circular motion.
July	V	Laws of Motion	Intuitive concept of force, Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion. Law of conservation of linear momentum and its applications.
			Equilibrium of concurrent forces, Static and kinetic friction, laws of friction, rolling friction, lubrication.
			Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road).
	Unit Test - II		
July and August	VI	Work, Energy and Power	Work done by a constant force and a variable force; kinetic energy, work-energy theorem, power.
			Notion of potential energy, potential energy of a spring, conservative forces: non- conservative forces, motion in a vertical circle; elastic and inelastic collisions in one and two dimensions.

Physics

Session: 2024-25

Contd. 2

Month	Chapter	Topics	Sub Topics
August	VII	System of Particles and Rotational Motion	Centre of mass of a two-particle system, momentum conservation and Centre of mass motion. Centre of mass of a rigid body; centre of mass of a uniform rod.
			Moment of a force, torque, angular momentum, law of conservation of angular momentum and its applications.
			Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions. Moment of inertia, radius of gyration, values of moments of inertia for simple
September	Block Test 1		
	VIII	Gravitation	Kepler's laws of planetary motion, universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Gravitational potential energy and gravitational potential, escape velocity, orbital velocity of a satellite. Gravitational potential energy; gravitational potential. Escape velocity. Orbital velocity of a satellite.
October	IX	Mechanical Properties of Solid	Elasticity, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear modulus of rigidity (qualitative idea only), Poisson's ratio; elastic energy.
October and November	X	Pressure due to a fluid column; Pascal's law and its applications (hydraulic lift and hydraulic brakes), effect of gravity on fluid pressure.	Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow, critical velocity, Bernoulli's theorem and its simple applications.
			Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension ideas to drops, bubbles and capillary rise.
November	XI	Thermal Properties of matter	Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat capacity; Cp, Cv - calorimetry; change of state - latent heat capacity.
			Heat transfer-conduction, convection and radiation, thermal conductivity, qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan's law.

Physics

Session: 2024-25

Contd. 3

Month	Chapter	Topics	Sub Topics
			Unit Test - III
December	XII	Thermo dynamics	Thermal equilibrium and definition of temperature zeroth law of thermodynamics, heat, work and internal energy. First law of thermodynamics, second law of thermodynamics: gaseous state of matter, change of condition of gaseous state -isothermal, adiabatic, reversible, irreversible, and cyclic processes.
	XIII	Kinetic Theory of Gas	Equation of state of a perfect gas, work done in compressing a gas. Kinetic theory of gases - assumptions, concept of pressure. Kinetic interpretation of temperature; rms speed of gas molecules; degrees of freedom, law of equi-partition of energy (statement only) and application to specific heat capacities of gases; concept of mean free path, Avogadro's number.
January	XIV	Oscillations	Periodic motion - time period, frequency, displacement as a function of time, periodic functions and their application. Simple harmonic motion (S.H.M) and its equations of motion; phase; oscillations of a loaded spring-restoring force and force constant; energy in S.H.M. Kinetic and potential energies; simple pendulum derivation of expression for its time period.
	XV	Waves	Wave motion: Transverse and longitudinal waves, speed of travelling wave, displacement relation for a progressive wave, principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats.
			Block Test -2

Chemistry

Session: 2024-25

Month	Chapter	Topics	Sub Topics
April	I	Some Basic Concepts Of Chemistry	Importance and scope of chemistry, Nature of matter Laws of chemical combination, Dalton's atomic theory: concept of elements, atoms and molecules. Atomic and molecular masses, mole concept and molar mass, percentage composition, empirical and molecular formula Chemical reactions, stoichiometry and calculations based on stoichiometry reactions.
	II	Structure Of Atom	Discovery of electrons, proton, neutron, atomic number, isotopes, isobars Thomson model, limitation, Rutherford model limitation Bohr's model and its limitations. Concept of shells and subshells Dual nature of matter and light, de Broglie's relationship Heisenberg uncertainty principle
Unit Test - I			
May	II	Structure of Atom (Cont.)	Concept of orbitals, quantum numbers, shapes of s, p and d orbitals Rules for filling electrons in orbitals - Aufbau principle, Pauli's exclusion principle and Hund's rule. Electronic configuration of atoms, stability of half-filled and completely filled orbitals.
June	III	Classification Of Elements And Periodicity In Properties	Significance of classification, brief history of development of periodic table. Modern periodic law and the present form of periodic table Periodic trends in properties of elements -atomic radii, ionic radii, inert gas radii, Ionization enthalpy, electron gain enthalpy, electronegativity, valency. Nomenclature of elements with atomic number greater than 100
	IV	Chemical Bonding and Molecular Structure	Valence electrons, ionic bond, covalent bond, bond parameters, Lewis structure Polar character of covalent bond, covalent character of ionic bond Valence bond theory, resonance Geometry of covalent molecules,

Chemistry

Session: 2024-25

Contd. 2

Month	Chapter	Topics	Sub Topics
July	IV	Chemical Bonding and Molecular Structure (Cont.)	VSEPR Theory Concept of hybridization, involving s, p and d orbitals and shapes of some simple molecules
	Unit Test - II		
	IV	Chemical Bonding and Molecular Structure (Cont.)	Molecular orbital theory of homonuclear diatomic molecules (qualitative idea only), hydrogen bond
	V	Chemical Thermodynamics	Concepts of System and types of systems, surroundings, work, heat, energy, extensive and intensive properties, state functions. First law of thermodynamics - internal energy and enthalpy, heat capacity and specific heat, measurement of ΔU and ΔH . Hess's law of constant heat summation, enthalpy of bond dissociation, combustion, formation, atomization, sublimation, phase transition, ionization, solution and dilution.
August	V	Chemical Thermodynamics (Cont.)	Second law of Thermodynamics (brief introduction). Introduction of entropy as a state function, Gibb's energy change for spontaneous and non- spontaneous processes, criteria for equilibrium.
	VI	Equilibrium	Third law of thermodynamics (brief introduction). Equilibrium in physical and chemical processes, dynamic nature of equilibrium law of mass action, equilibrium constant factors affecting equilibrium- Le Chatelier's principle
Block Test - I			
September	VI	Equilibrium (Cont.)	Ionic equilibrium- ionization of acids and bases, strong and weak electrolytes, degree of ionization, ionization of poly basic acids, acid strength, concept of pH
October	VI	Equilibrium (Cont.)	Henderson Equation, hydrolysis of salts (elementary idea), buffer solution, solubility product, common ion effect (with illustrative examples)
	VII	Redox Reactions	Concept of oxidation and reduction, redox reactions, oxidation number, balancing redox reactions in terms of loss and gain of electrons and oxidation number, applications of redox reactions.

Chemistry

Session: 2024-25

Contd. 3

Month	Chapter	Topics	Sub Topics
November	VIII	Organic Chemistry- Some Basic Principles And Techniques	Classification and IUPAC nomenclature of organic compounds. Isomerism
			Unit Test - III
November	VIII	Organic Chemistry- Some Basic Principles And Techniques	Electronic displacements in a covalent bond: inductive effect, electrometric effect, resonance and hyper conjugation. Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions, electrophiles and nucleophiles, types of organic reactions.
December	IX	Hydro Carbons	Alkanes - Nomenclature, isomerism, conformation (ethane only), physical properties, chemical reactions including free radical mechanism of halogenation, combustion and pyrolysis. Alkenes - Nomenclature, structure of double bond (ethene), geometrical isomerism, physical properties, methods of preparation chemical reactions: addition of hydrogen, halogen, water, hydrogen halides (Markownikov's addition and peroxide effect), ozonolysis, oxidation, mechanism of electrophilic addition.
January	IX	Hydro Carbons (Cont.)	Alkynes - Nomenclature, structure of triple bond (ethyne), physical properties, methods of preparation, chemical reactions: acidic character of alkynes, addition reaction of - hydrogen, halogens, hydrogen halides and water. Aromatic Hydrocarbons: Introduction, IUPAC nomenclature, benzene: resonance, aromaticity, chemical properties: mechanism of electrophilic substitution. Nitration, sulphonation, halogenation, Friedel Craft's alkylation and acylation, directive influence of functional group in monosubstituted benzene. Carcinogenicity and toxicity.
February	Block Test - II		

Biology Session: 2024-25

Month	Unit	Topic
April	Cell: Structure And Functions	Cell: The Unit Of Life
May	Diversity In The Living World	Living World
Unit Test - I		
June	Diversity In The Living World	Biological Classification
		Plant Kingdom
July		Plant Kingdom - Continued
		Animal Kingdom
	Cell: Structure And Functions	Cell Cycle And Cell Division
Unit Test - II		
August	Cell: Structure And Functions	Biomolecules
	Structural Organisation In Plants And Animals	Morphology Of Flowering Plants
		Anatomy Of Flowering Plants
	Structural Organisations In Plants And Animals	Structural Organisation Of Animals
Block Test- I		
September	Plant Physiology	Photosynthesis In Higher Plants
		Respiration In Higher Plants- Introduction
October	Plant Physiology	Respiration In Higher Plants- Continued
		Plant Growth And Development
November	Human Physiology	Breathing And Exchange of Gases
Unit Test - III		
December	Human Physiology	Body Fluids and Circulation
		Excretory Products and Their Elimination
December	Human Physiology	Locomotion and Movement (Introduction)
January	Human Physiology	Locomotion and Movement (To Be Continued)
		Neural Control and Co-Ordination
January	Human Physiology	Chemical Co-Ordination And Integration
	Revision	
February	Block Test - II	

Computer Science Session: 2024-25

Month	Topic	Sub Topic
April	Introduction To Problem Solving	Steps For Problem Solving (Analysing The Problem, Developing An Algorithm, Coding, Testing And Debugging).
		Representation Of Algorithms Using Flow Chart And Pseudo Code, Decomposition
	Getting Started With Python	Introduction To Python, Features Of Python, Executing A Simple “Hello World” Program, Execution Modes: Interactive Mode And Script Mode, Python Character Set, Python Tokens (Keyword, Identifier, Literal, Operator, Punctuator), Variables, Concept Of L-Value And R-Value, Use Of Comments
May	Python Fundamentals	Knowledge Of Data Types: Number (Integer, Floating Point, Complex), Boolean, Sequence (String, List, Tuple), None, Mapping (Dictionary), Mutable And Immutable Data Types
	Data Handling	Arithmetic Operators, Relational Operators, Logical Operators, Assignment Operator, Augmented Assignment Operators, Identity Operators (Is, Is Not), Membership Operators (In, Not In) Expressions, Statement, Type Conversion & Input/Output: Precedence Of Operators, Expression, Evaluation Of Expression, Python Statement, Type
June	Conditional And Iterative Statements	Flow Of Control: Introduction, Use Of Indentation, Sequential Flow, Conditional And Iterative Flow Control
		Conditional Statements: If, If-Else, If-Elif-Else
		Programs On Conditional Statements
July	Conditional And Iterative Statements	Iterative Statements: For Loop, Range Function, While Loop, Flowcharts, Break And Continue Statements
		Nested Loops. Programs On Iterative Statements.
Unit Test – I		
July	Computer System Overview	Basic Computer Organisation: Introduction To Computer System, Hardware, Software, Input Device, Output Device, Cpu, Memory (Primary, Cache And Secondary), Units Of Memory (Bit, Byte, KB, MB, GB, TB, PB)
		Operating System (Os): Functions Of Operating System, Os User Interface.
July	Computer System Overview	Encoding Schemes: Ascii, Iscii And Unicode (Utf8, Utf32) Emerging Trends: Cloud Computing, Cloud Services (Saas, Iaas, Paas), Blockchains, Artificial Intelligence (Ai), Machine Learning (Ml), Internet of Things (Iot)

Computer Science Session: 2024-25

Contd. 2

Month	Topic	Sub Topic
August	Data Representation	Binary, Octal, Decimal And Hexadecimal Number System; Conversion Between Number Systems.
	Boolean Logic	Boolean Logic: Not, And, Or, Nand, Nor, Xor, Truth Table, De Morgan's Laws And Logic Circuits
	String Manipulation	Introduction, Indexing, String Operations (Concatenation, Repetition, Membership & Slicing), Traversing A String Using Loops,
		Built-In Functions: Len (), Capitalize (), Title(), Lower(), Upper(), Count(), Find(), Index(), Endswith (), Startswith(), Isalnum(), Isalpha(), Isdigit(), Islower(), Isupper(), Isspace(), Lstrip(), Rstrip(), Strip(), Replace(), Join(), Partition(), Split()
Block Test – I		
September	List Manipulation	Introduction, Indexing, List Operations (Concatenation, Repetition, Membership & Slicing), Traversing A List Using Loops
October		Built-In Functions: Len(), List(), Append(), Extend(), Insert(), Count(), Index(),
		Remove (), Pop(), Reverse(), Sort(), Sorted(), Min(), Max(), Sum() Nested Lists. Programs On Lists.
		Debugging Pro- Grams
November	Tuples	Introduction, Indexing, Tuple Operations (Concatenation, Repetition, Membership & Slicing)
		Built-In Functions: Len(), Tuple(), Count(), Index(), Sorted(), Min(), Max(), Sum(); Tuple Assignment, Nested Tuple.
Unit Test – II		
November	Introduction To Python Modules	Importing Module Using 'Import <Module>' And Using From Statement, Importing Math Module (Pi, E, Sqrt, Ceil, Floor, Pow, Fabs, Sin, Cos, Tan); Random Module (Random, Randint, Randrange), Statistics Module (Mean, Median, Mode)
	Dictionaries	Introduction, Accessing Items In A Dictionary Using Keys, Mutability Of Dictionary (Adding A New Item, Modifying An Existing Item), Traversing A Dictionary
December	Dictionaries	Built-In Functions: Len(), Dict(), Keys(), Values(), Items(), Get(), Update(), Del(), Clear(),
		Built-In Functions: Fromkeys(), Copy(), Pop(), Popitem(), Setdefault(), Max(), Min(), Count(), Sorted(), Copy() Programs On Dictionary

Computer Science Session: 2024-25

Contd. 3

Month	Topic	Sub Topic
January	Cyber Safety	<p>Digital Footprints</p> <p>Digital Society And Netizen: Net Etiquettes, Communication Etiquettes, Social Media Etiquettes</p> <p>Data Protection: Intellectual Property Right (Copyright, Patent, Trademark), Violation Of Ipr (Plagiarism, Copyright Infringement, Trademark Infringement), Open Source Software And Licensing (Creative Commons, Gpl And Apache)</p> <p>Cyber-Crime: Definition, Hacking, Eavesdropping, Phishing And Fraud Emails, Ransomware, Preventing Cybercrime.</p> <p>Cyber Safety: Safely Browsing The Web, Identity Protection, Confidentiality, Cyber Trolls And Bullying.</p> <p>Safely Accessing Web Sites: Malware, Viruses, Trojans, Adware</p> <p>E-Waste Management: Proper Disposal Of Used Electronic Gadgets Indian Information Technology Act (It Act)</p> <p>Technology & Society: Gender And Disability Issues While Teaching And Using Computers</p>
Block Test – II		

Economics Session: 2024-25

Month	Unit	Topics	Sub Topics
April	Part B (Microeconomic S), Unit 4	Introduction To Microeconomics- Concept Of Production Possibility Curve	Meaning Of Microeconomics And Macroeconomics, Positive And Normative Economics. Central Problems Of An Economy, Concept Of PPC And Opportunity Cost
May	Part A (Statistics For Economics), Unit 1,2.	Introduction To Statistics. Collection Of Data, Organization Of Data And Presentation Of Data.	What Is Economics, Meaning, Scope And Functions Of Statistics. Sources Of Primary And Secondary Data; How Basic Data Is Collected With Concepts Of Sampling; Method Of Data Collection, Sources Of Secondary Data- Census and NSSO. Meaning And Types Of Variables, Frequency Distribution. Tabular And Diagrammatic Presentation Of Data. Geometric Forms (Bar And Pie Diagrams) And Frequency Diagrams (Histogram, Polygon And Ogive) And Arithmetic Line Graphs.
Unit Test I			
June	Part B (Microeconomic Cs), Unit 5	Consumer's Equilibrium And Demand	Consumer's Equilibrium- Meaning Of Utility, Marginal Utility, Law Of Diminishing Marginal Utility, Condition Of Consumer's Equilibrium Using Marginal Utility Analysis.
July	Part B (Microeconomic Cs), Unit 5.	Consumer's Equilibrium And Demand.	Indifference Curve Analysis Of Consumer's Equilibrium, Budget Set And Budget Line, Indifference Curve And Indifference Map, Preferences Of The Consumer And Condition Of Consumer's Equilibrium. Demand, Market Demand, Factors Affecting Demand, Demand Schedule, Demand Curve And Its Slope, Shift And Movement Along Demand: Curve. Price Elasticity Of Demand And Factors Affecting Price Elasticity Of Demand; Measurement Of Price Elasticity Of Demand Percentage Method And Total Expenditure Method.
Unit Test II			

Economics Session: 2024-25

Contd. 2

Month	Unit	Topics	Sub Topics
August	Part A (Statistics) Unit 3. Part B (Microeconomics), Unit 6	Measures Of Central Tendency-Mean, Median And Mode. Theory Of Production, Cost, Revenue.	Calculation Of Mean, Median Mode. Short Run And Long Run Production Function, Total, Average and Marginal Product, Returns To Factor. Short Run Costs-Total, Fixed And Variable Cost. Average Cost, Average Fixed Cost, Average Variable Cost & Marginal Cost-Meaning And Their Relationship. Total, Average And Marginal Revenue-Meaning and Relationship.
Block Test I			
October	Part B (Microeconomics), Unit 6	Producer's Equilibrium. Theory Of Supply And Its Elasticity	Producer's Equilibrium-Meaning, Condition In MR - MC Approach. Supply, Market Supply, Determinants of Supply, Supply Schedule, Supply Curve and Its Slope, Movement Along and Shift In Supply Curve, Price Elasticity of Supply and Its Measurement By Percentage Change Method.
November	Part A (Statistics For Economics), Unit 3	Correlation	Meaning and Properties, Scatter Diagram, Measures Of Correlation-Karl Pearson's Method (2-Variable Un-Grouped Data) And Spearman's Rank Correlation Method (Tied And Untied Ranks).
Unit Test III			
December	Part B (Microeconomics), Unit 7	Forms Of Market And Determination Of Per Unit Price Of A Good In A Perfectly Competitive Market.	Perfect Competition- Features, Determination Of Market Equilibrium And Effects Of Shifts In Demand And Supply. Price Control-Price Ceiling And Price Floor.
January	Part A (Statistics For Economics), Unit 3	Index Numbers	Meaning, Types, Wholesale Price Index, Consumer's Price Index, Index Of Industrial Production, Uses Of Index Numbers-Inflation And Index Numbers, Simple Aggregative Method.
February	Block Test II		

Accountancy Session: 2024-25

Month	Topic	Sub topic
April	Introduction to Accounting	Transactions-meaning features, types. objective of accounting, accounting terminologies
	Theory Base of Accounting	Accounting Concepts and Principles, Cash and Accrual basis of Accounting
	Recording of Business transactions	Accounting Equation
Unit Test I		
May	Recording of Business transactions	Double entry system-Golden Rule, Debit & Credit, Classification of Journals and Source documents
June		Journalising (contd along with GST), ledger posting and balancing of accounts
July	Trial Balance	Trial Balance-Objectives, meaning and preparation
Unit Test II		
July	Recording of Business transactions	Cash Book (single, double column) and Petty Cash Book Purchase and Sales Day Book; Purchase return and sales return Day Book (excluding B/R and B/P day book)
August	Bank Reconciliation Statement	Bank Reconciliation Statement (excluding amended cash book) - Need and Preparation
Block Test 1		
September	Depreciation, Provision and Reserves	Provision and Reserve; Capital and Revenue; Depreciation- Method, reason for Charging depreciation. Straight Line Method
October		Depreciation - Written down value method, provision for depreciation and Asset Disposal A/c.
November	Rectification of errors	Rectification of errors - before and after preparation of Trial Balance and preparation of suspense account
Unit Test III		
November	Financial Statements	Accounting treatment of reserves and provisions and representation in financial statements
December		Preparation of Trading, Profit & Loss A/c and Balance Sheet without adjustments
		Preparation of Trading, Profit & Loss A/c and Balance Sheet with adjustments
January		Incomplete Records - Features, Reasons and limitations, Ascertainment of Profit/Loss by Statement of Affairs method
		Incomplete Records - Features, Reasons and limitations, Ascertainment of Profit/Loss by Statement of Affairs method
February	Block Test II	

Business Studies

Session: 2024-25

Month	Topic	Sub Topic
April	Evolution and Fundamentals of Business	History of Commerce In India, Concept and Characteristics
		Differentiation Between Business, Profession And Employment, Objectives Of Business (Economic And Social), Role Of Profit
		Classification Of Business Activity (Industry And Commerce), Business Risk - Meaning, Nature And Causes And Written Work.
	Forms of Business Organisation	Sole Proprietorship And Joint Hindu Family Business
Unit Test I		
May	Forms of Business Organisation	Partnership: Features, Types, Merits, Demerits And Types Of Partners, Minor As A Partner, Llp, Cooperative Societies - Features, Types, Merits And Demerits
June	Forms of Business Organisation	Joint Stock Companies - Features, Merits And Demerits, Starting A Business -Basic Factors
	Public, Private and Global Enterprises	Forms Of Public Enterprises, Global Enterprises And Public Private Partnership. Differentiation Between Public Sector And Private Sector
July	Business Services	Banking - Types Of Bank Account, Banking Services, RtgS, Neft, Core Banking, Insurance - Principles, Life Insurance, Health Insurance, Fire Insurance And Marine Insurance - Meaning And Differentiation. Postal And Telecom Services.
Unit Test II		
July	Emerging Modes Of Business	E- Business - Scope, Benefit, Resources Required To Implement, Online Transactions, Payment Mechanism And Security and Safety of Business Transaction, Outsourcing BPO and KPO
August	Social Responsibility And Business Ethics	Meaning, Definition and Need for Social Responsibility, Arguments For and Against Social Responsibility, Responsibility Towards Different Interest Groups
Block Test 1		
September	Sources of Business Finance	Meaning and Need for Business Finance, Sources of Business Finance Ownership Basis, Retained Earnings, Issue of Equity Shares, Preference Shares
		ADR, GDR, IDR, Borrowed Fund - Debenture and Bonds, Loans From Commercial Banks and Financial Institutions, Public Deposit, Trade Credit and ICD.
October	Formation of A Company	Formation of A Company Procedure and Documents (Including OpC)
Unit Test III		

Business Studies**Session: 2024-25**

Contd. 2

Month	Topic	Sub Topic
November	Small Business	Entrepreneurship Development Concept Characteristics And Need, Definition Of Small Scale Enterprise, Role Of Small Business In India With Special Reference To Rural Areas
		Government Scheme And Agencies - Nsic And Dic With Special Reference To Rural, Backward And Hilly Area And Written Work
December	Internal Trade	Gst Concept And Key Features, Services Of A Whole Seller, Services Of Retailers, Types Of Retail Trade - Itinerant Retailers.
		Small Scale Fixed Shops, Large Scale Retailer - Departmental Stores
		Chain Stores And Mail Order Houses
		Gst -Concept And Key Features
January	International Trade	Meaning, Characteristics Of International Trade, Difference Between Internal And International Trade, Advantages And Disadvantages Of International Trade
		Export Procedure With All Documents And Import Procedure With All Documents. Wto, Its Meaning And Objectives
February	Block Test II	

Entrepreneurship

Session: 2024-25

Month	Unit	Topic
July	Entrepreneurship: Concept and Functions	1. Concepts, Functions and Needs
		2. Why entrepreneurship for you
		3. Myths about Entrepreneurship
		4. Advantages and Limitations of entrepreneurship
		5. Process of entrepreneurship
		6. Entrepreneurship- the Indian scenario
August	An Entrepreneur	1. Why be an entrepreneur
		2. Types of entrepreneurs
		3. Competencies and Characteristics
		4. Entrepreneurial values, Attitudes and Motivation
		5. Intrapreneur: Meaning and Importance
	Entrepreneurial Journey	1. Generation of ideas
	2. Feasibility study and opportunity assessment	
Block Test I		
September	Entrepreneurial Journey	3. Business plan: meaning, purpose and elements
October		4. Execution of Business Plan
	Entrepreneurship as Innovation and Problem Solving	1. Entrepreneurs as problem solvers
		2. Innovations and Entrepreneurial ventures - Global and Indian
		3. Role of Technology-E-Commerce and social media
	4. Social Entrepreneurship-Concept	
November	Understanding The Market	1. Market: Concept
		2. Micro and Macro Market Environment
		3. Market Research-Concept, Importance and Process
		4. Marketing Mix
Unit Test		
December	Business Finance And Arithmetic	1. Unit of Sale, Unit Price and Unit Cost-for single product or service
		2. Types of Cost-Start Up, Variable and Fixed
		3. Break Even Analysis-for single product or service
January	Resource Mobilization	1. Types of Resources- Physical, Human, Financial and Intangible
		2. Selection and Utilization of human resources and professionals like Accountants, Lawyers, Auditors, Board Members, etc
Block Test II		

History Session: 2024-25

Month	Unit	Topic
April - May	1	Writing and City Life
UT 1		
June - July	2	An Empire across Three Continents
UT2		
August	3	Nomadic Empires
	4	The Three Orders (Till Growth of Cities)
Block Test 1		
September & October	4	The Three Orders (To be continued)
UT 3		
November	5	Changing Cultural Traditions
December	6	Displacing Indigenous People
January	7	Paths to Modernisation
February	Block Test II	

Geography Session: 2024-25

Fundamentals of Physical Geography [Part A]			
Month	Unit	Topic	Sub topic
April	Unit I Geography as a Discipline	Geography As a Discipline	Geography as an integrating discipline, as a science of spatial attributes. Branches of Geography: Physical Geography and Human Geography.
	Unit II The Earth	The Origin and Evolution of the Earth	Origin and evolution of the earth: Early and Modern theories
May	Unit II The Earth	Interior of the Earth	Interior of the earth.: Earthquakes and volcanoes: causes, types and effects.
Unit Test - I			
June		Distribution of oceans and continents	Distribution of oceans and continents: Wegener’s continental drift theory and plate tectonics.
July	Unit- III Landforms	Geomorphic Processes	Geomorphic processes: weathering; mass wasting; erosion and deposition; soil-formation.
		Landform and their Evolution	Landforms and their evolution- Brief erosional and depositional features of rivers, wind, glaciers, sea waves and underground water
UNIT TEST - II			
August	Unit - IV Climate	Composition and Structure of Atmosphere	Atmosphere- composition and structure; elements of weather and climate.
		Solar Radiation, Heat balance and Temperature	Insolation-angle of incidence and distribution; heat budget of the earth-heating and cooling of atmosphere (conduction, convection, terrestrial radiation and advection); temperature- factors controlling temperature; distribution of temperature-horizontal and vertical; inversion of temperature.
Block Test - I			

Geography Session: 2024-25

Contd. 2

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

Part B: India - Physical Environment

Month	Unit	Topic	Sub topic
April	Unit-I Introduction	Introduction	Location, space relations, India's place in the world
May and June	Unit II Physiography	Structure and Physiography	Structure And Relief; Physiographic Divisions
UNIT TEST - I			
July	Unit II Physiography	Structure and Physiography	Drainage systems: Concept of river basins, watershed; the Himalayan and the Peninsular rivers
UNIT TEST - II			
August	Unit III Climate Vegetation and Soil	Climate	Weather And Climate - Spatial And Temporal Distribution of Temperature. Indian Monsoon: Mechanism, Onset And Withdrawal,
BLOCK TEST - I			

Geography Session: 2024-25

Contd. 3

Month	Unit	Topic	Sub topic
September and October	Unit III Climate Vegetation and Soil	Natural Vegetation	Natural vegetation-forest types and distribution; Wildlife; conservation; biosphere reserves
November	Unit-IV Natural Hazards and Disasters: Causes Consequences and Management	Natural Hazards	Floods, Cloudbursts. Droughts: types and impact. [TO BE TESTED THROUGH PROJECT]
UNIT TEST - III			
December	Unit-IV Natural Hazards and Disasters: Causes Consequences and Management	Natural Hazards	Earthquakes and Tsunami. Cyclones: features and impact. Landslides. [TO BE TESTED THROUGH PROJECT]
January	BLOCK TEST-II		

Information Technology

Session: 2024-25

Month	Topic	Sub Topic
April	Unit 1: Communication Skills-III	Verbal Communication and Non-verbal Communication
		Pronunciation Basics
		Saying No — Refusal Skills
		Writing Skills — Parts of Speech
	Unit 2: Self-Management Skills- III	Writing Skills — Sentences Greetings and Introduction Talking about Self and family
		Grooming
		Personal Hygiene
		Team Work
		Networking Skills
May	Unit 4: Entrepreneurship Skills	Self-motivation
		Goal Setting
		Time Management
		Introduction to Entrepreneurship
		Values, attitude and thinking of an Entrepreneur
June	Unit 5: Green Skills	Coming Up with a Business Idea
		Understanding the Market
		Business Planning
		Sectors of Green Economy
		Policies for a Green Economy
		Stakeholders in Green Economy
		Government and Private Agencies

Information Technology

Session: 2024-25

Contd. 2

Month	Topic	Sub Topic
July	Unit 1: Computer Organization	Understand and appreciate fundamentals of Computer and its characteristics
		Introduction to Fundamentals of Computer and its use
		Characteristics of computer
		Components of computer
		Block diagram of computer
		Processes of task execution
		steps of process execution
		function of various components of computer and CPU
		Understand the components of computer
		identify various components of computer
		appreciate function and use of I/O devices
		various storage devices used in computer, various memory units
		Understand Operating System
		introduction to Operating System and its need
		functions of operating system
		types of operating system
		difference between various operating systems
		Troubleshooting in computer system
		introduction to common troubleshooting/ problems
		common troubleshooting steps
		troubleshooting hardware problems like display keyboard, mouse etc.
		troubleshooting printer problems
		understanding printer IP address
		understanding various printer settings like fast/ slow printing
		understanding speaker settings like volume etc.
		troubleshooting networking problems
		learn about problems in network fly lead, network card
		Understand the importance of Utilities
		Disk Space management
		Disk Cleanup
		Recycle Bin, disk defragmentation
		learn to remove unused programs
		restart the system
		command prompt to search for a file

Information Technology

Session: 2024-25

Contd. 3

Month	Topic	Sub Topic
August	Unit 3: Office Automation Tools	Word processor (ICT skills-III included)
		Introduction work with Word processing applications like OpenOffice
		Introduction to Word Processing window components like work area, ruler, tab etc.
		Understanding various tabs like File, Edit, Insert, View and their submenu options to format a document using OpenOffice Writer.
		create tables in word processors
		Spreadsheets
		need and use of spreadsheets
		learn to install an open-source spreadsheet software like Calc
		learn components of the Spreadsheet title window
		different formatting features available in spreadsheets
		learn to work, save and close spreadsheets, work with data, move data, use edit menu
		Use AutoFill, formatting data, alignment, changing cell colour, gridlines and borders, flow of text, merging, splitting text, wrap text, shrink to fit
		Numeric data formatting, Find and Replace Data, delete data and formatting, delete cells, insert delete rows and columns, using formula and functions , various type of operators
		predefined functions in spreadsheets (sum (), sqrt(), product(), power(), log(), round(), abs(), average() etc.
		addressing/ referencing: absolute, relative, mixed
		sort and filter data, create chart and graph, setting legend, grids in charts, resizing and moving charts, modifying and deleting charts
		create/record a macro, run/use macros, print spreadsheets
		PowerPoint
		introduction to presentation software
		start OpenOffice Impress
		overview of OpenOffice
		study of various tabs of OpenOffice
		understand various views of presentation, animations, transitions, header, footer etc.
BLOCK TEST-1		

Information Technology

Session: 2024-25

Contd. 4

Month	Topic	Sub Topic
September	Unit 2: Networking and Internet	Understand Computer Networking
		Introduction
		Need and benefits of networking
		Components of a network: sender, receive, message, channel
		Transmission Medium (wired and wireless)
		Telephone Network standard (technology used in each generation)
		Working Devices (RJ45 connector, Modem, Repeater, Hub, Switch, Bridge, Gateway, Routers)
		Network Topology (Bus, Star, Ring, Tree, Mesh)
		Types of Networking (LAN, MAN, WAN, PAN, VAN)
		To understand Internet and its terminology
		Introduction and use of Internet
		Digital Literacy, Terminology (Channels, Bandwidth (HERTZ, KHZ), ISP)
		Internet Devices: Repeater, Hub, Switch, Gateway, Bridge, Router
		Data Transfer Rate (bps, Kbps, KBps, Mbps, MBPS, Gbps, GBPS)
October	UNIT - 4: RDBMS	Protocols (TCP/IP, FTP, HTTP, SMTP, POP3, PPP, UDP)
		Understand cybercrime and the need of Cyber Security
		Network safety concerns: (Digital Footprints, Threats, Virus, Worm, Trojan Horse, Spam, Malware, DoS Attacks, Eavesdropping, Adware, Spyware, Snooping)
		Networking Security Measures (Antivirus, Firewall, Login ids and Password)
		Cyber Crime (Phishing, Pharming, Spoofing, Cyber Bullying, Hacking, Cracking, Identity Theft, Cyber Stalking, Cyber Trolling,
		Cyber Safety (Netiquettes, IT Act, Cyber Laws)
		Understand Relational Database Management System
		Database and its purpose, Components of a table , Relational Database Model Terminology (Relation, Tuple, Attribute, Cardinality) , Keys (Primary, Candidate, Alternate, Foreign)
		Introduction to MYSQL
		Introduction To MYSQL, Classification of MYSQL commands (DDL, DML), Data Types in MYSQL (char, varchar, decimal, int, date, time) , Create database , Create table , View structure of a table , Add constraints in table , Modify structure , Show all tables created in a database , Delete structure

Information Technology

Session: 2024-25

Contd. 5

Month	Topic	Sub Topic
November	UNIT - 4: RDBMS	DML Commands
		Add rows to a table, Viewing content of a table, Display selected data depending on specific condition, Display data in a order, modify the data stored in a table, delete contents of a table
	UNIT-5: Understanding Fundamental of Java Programming	Understand Integrated Development Environment (NETBEANS) Components of IDE, Understand and change Properties and methods of Components like JButton, JLabel, JTextField, JTextarea, JRadioButton, JCheckBox, JPasswordField, JList, JBox, JComboBox
UNIT TEST-2		
December	UNIT - 5: Understanding Fundamental of Java Programming	JAVA Programming Introduction to Object Oriented Programming, To understand various data types (primitive) and purpose of each data type, To understand the need and usage of variables, To understand usage of operators (assignment, arithmetic, relational, logical, bitwise), To understand how to attach a code with components like JButton, JLabel, JTextField and create a simple application on JFrame, To understand the use of various components like JTextarea, JRadioButton, JCheckBox, JPasswordField, JList, JBox, JComboBox, JTable, JOptionPane, JPanel, To understand when to use selection statements (if, if else and switch case)
		Introduction to the concepts of if, else, else if, Programs based on if else, programs based on nested if else, Programs based on switch case
January		
BLOCK TEST-2		

Political Science

Session: 2024-25

Month	Units / Chapters	Indian Constitution at Work	
		Topic	Sub-Topic
April	1	Constitution: Why and How?	Why do we need a Constitution?
	2	Rights in the Indian Constitution	The importance of rights -Bill of Rights b) Fundamental rights in the Indian Constitution; Directive principles of state policy; Relationship between fundamental rights and directive principles
	3	Elections and Representation	Elections and democracy, Election system in India - FPTP system; Reservation of constituencies; Free and fair elections Electoral Reforms
May	4	The Legislature	Why do we need a parliament? Why do we need two houses of parliament? What does the parliament do? How does the parliament make laws? How does the parliament control the executive? What do the committees of parliament do? How does the parliament regulate itself?
UNIT TEST 1			
June	5	The Executive	Parliamentary Executive in India; What is an Executive; Different Types of Executive
			Powers and Position of the President
			Prime Minister and the Council of Ministers
June	6	The Judiciary	Permanent Executive- The Bureaucracy
			Why do we need an independent judiciary? Independence of Judiciary-Appointment of Judges - Removal of Judges
			Structure of the Judiciary Jurisdiction of Supreme Court Judicial Activism Judiciary and Rights Judiciary and Parliament
July	7	Federalism-	What is Federalism? Federalism in the Indian Constitution Federalism with a strong central government Conflicts in India's federal system President's Rule Special provisions
	8	Local Governments	Necessity of Local Governments; Growth of Local Governments in India; "73rd and 74th Amendments; Working and Challenges of Local Governments"
UNIT TEST 2			

Political Science

Session: 2024-25

Contd. 2

Month	Units / Chapters	Indian Constitution at Work	
		Topic	Sub-Topic
July - August	9	Constitution as a Living Document	Are constitutions static? How to amend the constitution? Why have there been so many amendments? Contents of amendments made so far?
	10	The Philosophy of the Constitution	Meaning of Philosophy of the Constitution; Need to go back to Constituent Assembly; Political Philosophy of the Constitution; Procedural Achievements Criticisms, Limitations
August	Block Test 1		
	Political Theory		
	8	Political Theory: An Introduction	What is Politics? Politics vs Political Theory Importance of Political Theory Putting Political theory into practice Why should we study political theory?
September - October	9	Freedom	The sources of Constraints-Why do we need constraints? The Harm Principle Negative and Positive liberty
	10	Equality	Equality Why does equality matter? ❖ Equality of opportunities ❖ Natural and Social Inequalities Three dimensions of equality Feminism, Socialism, How can we promote equality?
	11	Social Justice	What is Justice? ❖ Equal Treatment for Equals ❖ Proportionate Justice ❖ Recognition of Special Needs Just distribution John Rawls Theory of Justice Pursuing Social Justice Free Markets versus State Intervention
	12	Rights	What are Rights? Where do rights come from? Legal rights and the state Kinds of rights Rights and responsibilities

Political Science

Session: 2024-25

Contd. 3

Month	Units / Chapters	Indian Constitution at Work	
		Topic	Sub-Topic
November - December	13	Citizenship	Introduction Full and equal membership Equal Rights Citizen and Nation Universal Citizenship Global Citizenship
	14	Nationalism	Introduction; Full and equal membership; Equal Rights; Citizen and Nation; Universal Citizenship; Global Citizenship
UNIT TEST 3			
January	15	Secularism	What is Secularism? Inter-religious Domination Intra-religious Domination Secular State The western model of secularism The Indian model of secularism
February	Block Test 2		

Psychology

Session: 2024-25

Month	Units	Topic	Sub-Topic
April - May	1	What is Psychology?	Introduction understanding and evolution
			Branches, themes, psychology in India, Psychology at work, psychology in everyday life.
	2	Methods of enquiry	Goals and nature of enquiry.
			Some important methods such as experimentation (concept of variables), interview, case study, survey, observation
			Analysis of data (qualitative and quantitative), ethical issues
	Practical 1	Report on any one method of enquiry (survey method)	
Unit Test 1			
May - June	3	Practical 2	Highlighting Adolescence as “a period of stress and storm” through newspaper or magazine cut outs and relevant research.
			Human Development
		Overview of developmental stages.	
		Infancy, childhood, adulthood etc.	
June - July	4	Sensory attentional perceptual processes	Sense modalities, adaptation, and attentional process.
			Perception Concept and definition
			Principles of perception and after images
			Perception of space depth and distance.
			Perceptual constancies- Illusions, socio- cultural influences in perception.
Unit Test II			
June - July	4	Practical 3	Psychology of Advertisements: Highlighting the factors of attention that attracts the potential customers.
July - August	5	Learning	Nature of learning
			Classical and Operant conditioning
			Concept and Skill learning, Verbal learning and other theories
			Learning styles and Specific Learning Disorders
			Application of learning Principles
Block Test I			
August-September	6	Human Memory	Nature of memory, Information Processing approach of memory.
			Knowledge representation and processes.
			Nature and causes of forgetting
			Enhancing Memory

Psychology Session: 2024-25

Contd. 2

Month	Units	Topic	Sub-Topic
September-October	7	Thinking	Nature of Thinking
			Thought and language
			Reasoning, problem solving, decision making
			Nature and process of creative thinking
			Developing creativity
Unit Test III			
October - November	7	Practical 4+5	To determine the capacity of memorization of the subject using auditory or visual presentation. + To determine the effect of Pro Active Inhibition on the memorization capacity of the subject.
November-December	8	Motivation and Emotion	Thinking continued.
			Nature of motivation. Motives- Biological and psychosocial, Mc Clelland's theory
			Maslow's Hierarchy of needs
			Emotion-concepts and definitions
			Emotional expressions
			Theories of emotions
			Managing Negative emotion
January - February	Block Test II		

Sociology

Session: 2024-25

Month	Units / Chapter	Topic	Sub Topic
July	A	Introducing Sociology	Sociology and Society
			Theories, terms, concepts
			Understanding social institutions
August - September	B	Understanding Society	Social change and Social order
Block Test 1			
October and November	A	Introducing Sociology	Culture and Socialization
Unit Test			
December	B	Understanding Society	Western Sociologist
January			Indian Sociologist
February	Block Test 2		

Physical Education

Session: 2024-25

Month	Units	Topic	Sub-Topic
April	1	Changing Trends & Career in Physical Education	Concept, Aims & objectives in Physical education
			Development of Physical Education in India – Post Independence
			Changing trends in Sports- playing surface, wearable gears and sports equipment, technological advancements
			Career options in Physical education
			Khelo India program & Fit-India Program
April - May	2	Olympism value Education	Olympism – Concept and Olympics Values (Excellence, Friendship & Respect)
			Olympic Value Education – Joy of Effort, Fair Play, Respect for Others, Pursuit of Excellence, Balance Among Body, Will & Mind
			Ancient and Modern Olympics
			Olympics - Symbols, Motto, Flag, Oath, and Anthem
			Olympic Movement Structure - IOC, NOC, IFS, Other members
Unit Test - I			
June	3	Yoga	Meaning & Importance of Yoga
			Introduction to Ashtanga Yoga
			Introduction to Yogic Kriyas (Shat Karma)
			Pranayama and its types
			Active Lifestyle and stress management through Yoga
July	4	Physical Education & Sports For CWSN (Children With Special Needs- Divyang)	Types of Disability, its causes & nature (Intellectual disability, Physical disability)
			Disability Etiquette
			Aim & Objective of Adaptive Physical Education
			Role of various professionals for children with special needs (Counsellor, Occupational Therapist, Physiotherapist, Physical Education Teacher, Speech Therapist & Special Educator)
Unit Test - II			

Physical Education

Session: 2024-25

Contd. 2

Month	Units	Topic	Sub-Topic
August & September	5	Physical fitness, Health and Wellness	Meaning and Importance of Wellness, Health and Physical Fitness
			Components/Dimensions of Wellness, Health and Physical Fitness
			Traditional Sports & Regional Games for promoting wellness
			Leadership through Physical Activity and Sports
			Introduction to First Aid – PRICE
			Block Test - I
October	6	Test, Measurement & Evaluation	Define Test, Measurement & Evaluation.
			Importance of Test, Measurements and Evaluation in Sports
			Calculation of BMI, Waist – Hip Ratio, Skin fold measurement (3-site)
			Somato Types (Endomorphy, Mesomorphy & Ectomorphy)
			Measurements of health-related fitness
November	7	Fundamentals Of Anatomy, Physiology in Sports	Definition and Importance of Anatomy and Physiology in exercise and sports
			Functions of Skeletal system, classification of bone and types of joints
			Properties and Functions of Muscles
			Function and Structure of Circulatory system and heart
			Function and Structure of Respiratory system
			Unit Test- III
December	8	Fundamentals Of Kinesiology & Biomechanics in Sports	Definition and Importance of Kinesiology and Biomechanics in Sports
			Principles of Biomechanics
			Kinetics and Kinematics in Sports
			Types of Body Movements - Flexion, Extension, Abduction, Adduction, Rotation, Circumduction, Supination & Pronation
			Axis and Planes – Concept and its application in body movements

Physical Education

Session: 2024-25

Contd. 3

Month	Units	Topic	Sub-Topic
January	9	Psychology & Sports	Definition & Importance of Psychology in Phy. Edu. & Sports
			Developmental Characteristics at Different Stages of Development
			Adolescent Problems & Their Management
			Team Cohesion and Sports
			Introduction to Psychological Attributes: Attention, Resilience, Mental Toughness
January - February	10	Training & Doping in Sports	Concept and Principles of Sports Training
			Training Load: Overload, Adaptation, and Recovery
			Warming-up & Limbering Down – Types, Method & Importance
			Concept of Skill, Technique, Tactics & Strategies
February			Concept of Doping and its disadvantages
			Block Test - II

Legal Studies

Session: 2024-25

Month	Units	Topic	Sub-Topic
June - July	Unit 1: Introduction to Political Institutions	Chapter 1-Concept of State	Meaning of State and Government; Emergence of the State from society; theories on the origin of the State; Elements of the State; Role of the State
		Chapter 2 - Forms and Organs of the Government	Monarchy; Aristocracy; Dictatorship; Democracy; Functions of the Organs of the Government
	Unit 1: Introduction to Political Institutions	Chapter 3 - Separation of Powers	Historical Evolution of Montesquieu's Doctrine of Separation of Powers; Checks and balances of power; Keys and Benefits of Separation of Powers; Separation of Powers in India
	Unit 2: Basic Features of the Constitution of India	Chapter 1: Salient features of the Constitution	Meaning of the term Constitution, Definition of the term Constitution, Historical Perspective of Indian Constitution Salient Features of The Constitution of India
		Chapter 2: Administrative Law	Background; Administrative Law and Constitutional Law; Reasons for Growth, Development and Study of Administrative Law, Types of Administrative Actions, Rule of Law, Droit System
August - September	Unit 3: Jurisprudence, Nature and Sources of Law	Chapter 1: Jurisprudence, Nature and Meaning of law Chapter 2: Classification of Laws	Introduction; Historical Perspective; Schools of Law; Functions and Purpose of law; Classification of Law based on Subject matter; Classification of Law based on Scope of Law; Classification of Law based on Jurisdiction
		Chapter 3: Sources of Laws	Where does law come from? Custom as a source of Law; Importance of Custom as a source of Law in India; Judicial Precedent as a Source of Law; Legislation as a Source of Law
		Chapter 4: Law Reforms	Need for Law Reform Law Reforms in India Recent Law Reforms in Independent India

Block Test I

Legal Studies

Session: 2024-25

Contd. 2

Month	Units	Topic	Sub-Topic
October	Unit 3: Jurisprudence, Nature and Sources of Law	Chapter 5: Cyber Laws, Safety and Security in India	Why do we need Cyber Laws What is Cyber Law? What is Cyber safety and Security? What is Cyber Crime? Categories of Cyber Crime Cyber law in India Scope and Extent of The Information and Technology Act, 2000 (IT Act) What was Section 66A of IT Act, 2000?
November	Unit 4: Judiciary: Constitutional, Civil and Criminal Courts and Processes	Chapter 1: Judiciary: Constitutional, Civil and Criminal Courts and Processes	<p>I. Introduction: Establishment of the Supreme Court and High Courts</p> <p>II. Constitution, Roles And Impartiality</p> <p>a. Independence and Impartiality of the Supreme Court</p> <p>b. Structure and Hierarchy of the Courts in India</p> <p>c. The civil process and functioning of Civil courts</p> <p>III. THE CIVIL COURT STRUCTURE</p> <p>a. Common legal terminology</p> <p>b. Types of jurisdictions</p> <p>c. Res subjudice and Res judicata in code of civil procedure 1908</p> <p>IV. STRUCTURE AND FUNCTIONING OF CRIMINAL COURTS IN INDIA</p> <p>a) Types of offences</p> <p>b) Criminal investigation and First Information Report</p> <p>c) The criminal process- Investigation and prosecution</p> <p>d) Doctrine of autrefois acquit and autrefois convict</p> <p>V. Other courts in India</p> <p>a) Family Courts</p> <p>b) Administrative Tribunals</p>
UNIT TEST III			

Legal Studies Session: 2024-25

Contd. 3

Month	Units	Topic	Sub-Topic
December	Unit 5: Family Justice System	Chapter 1 - Institutional Framework- Marriage and Divorce	I. Nature of Family law in India II. Human rights and gender perspective III. Institutional framework- family Courts IV. Role of women in the creation of family courts V. Role of lawyers and counsellors in Family courts VI. Role of counsellors and gender issues VII. Marriage and Divorce
		Chapter 2 - Child Rights	Child Rights Right to Education, Health, Shelter, Child Labour, Sexual Abuse, Juvenile Justice
		Chapter 3 - Adoption	Adoption; Minor Custody and Guardianship
January		Chapter 4 - Property, Succession and Inheritance	Concept of Joint Family Property and Separate property; Inheritance and Succession; Intestate succession, Testamentary succession
		Chapter 5 - Prevention of Violence against Women	I. What is Domestic abuse / violence? II. International legal framework III. Laws in India on prevention of violence against women
February	Block Test II		

Painting Session: 2024-25

Month	Unit	Topic	Sub Topic	
June	1	Pre-Historic rock paintings and Art of Indus Valley.	Pre-Historic Rock-Paintings Introduction	
			Wizard's Dance, Bhimbethaka	
			Indus Valley Introduction	
			Dancing girl	
			Male Torso	
			Mother Goddess	
			Bull (Seal)	
			Painted earthen-ware	
	1	Buddhist, Jain and Hindu Art. (Mauryan Art)	Mauryan, Shunga, Kushana and Gupta period: Introduction	
			Lion Capital from Sarnath	
Chauri Bearer from Didar Ganj				
July	2	Buddhist, Jain and Hindu Art.	Mauryan, Shunga, Kushana and Gupta period: Introduction	
			Lion Capital from Sarnath	
			Chauri Bearer from Didar Ganj	
	2	Buddhist, Jain and Hindu Art.	Seated Buddha from Katra Mound	
			Jain Tirathankara	
		Temple Sculpture	Ajanta: Introduction	
			Indian Temple sculpture	
August	2	Temple Sculpture	Descent of Ganga	
			Trimuti	
	3		Lakshmi Narayana	
			Cymbal Player	
Block Test I				
September - October	3		Temple Sculpture	Lakshmi Narayana
		Cymbal Player		
	3	Indian bronze	Mother and Child	
			Indian bronze: Introduction	
November	3	Indian bronze	Nataraj	
Unit Test III				
December	3	Indo Islamic Architecture	Qutub Minar	
			Gol Gumbad, Bijapur	
January	3	Revision	Pre-Historic rock paintings and Art of Indus Valley.	
			Buddhist, Jain and Hindu Art.	
			Temple, Sculpture, Bronze & Islamic Architecture	
Block Test II				

Hindustani Music Vocal Session: 2024-25

Month	Unit	Topic	Sub Topic
June	1	Introduction Of Hindustani Music.	Vedic And Ancient Roots, Emergence Of Raga System.
		Raga- Bihag	Vilambit & Drut Khayal, Alap - Taan.
	2	Notation Writing	Writing In Notation The Composition
July	3	Raga- Bhimpalasi	Vilambit & Drut Khayal, Alap- Taan.
		Notation	Writing In Notation The Composition Of Raga Bhimpalasi.
August	3	Dhrupad	One Dhrupad With Dugun In Any One Of The Following Ragas: Bihag, Bhimpalasi, Bhairavi.
		Theory: Margi-Desi, Raga.	Brief Study Of The Following: Margi-Desi, Raga.
Block Test I			
September	4	Raga- Bhairavi	Vilambit & Drut Khayal, Alap-Taan.
		Devotional Song	Bhajan, Kirtan Or Qawwali.
October	4	Dhrupad, Khayal And Tarana	Brief History Of The Following Dhrupad, Khayal And Tarana.
November	5	*Teentala	Description Of Talas Along With Tala Notation With Thah, Dugun And Chaugun.
		* Ektala	
		* Chautala	
		Musical Elements In Natya Shastra	Brief Study Of Musical Elements In Natya Shastra.
Unit Test III			
December	6	Tansen, V.n.bhatkhande And V.d. Palushkar	Life Sketch And Contribution In Hindustani Music Of Tansen, V.n.bhatkhande And V.d.palushkar.
		Structure Of Tanpura	Knowledge Of The Structure Of Tanpura.
January	7	Recognition Of Ragas	Ability To Recognize The Ragas From Phrases Of Swaras And Elaborating Them.
	8	Revision	All Unit Revision.
		Practical File	Submission Of File.
Block Test II			

Dance (Bharatnatyam)

Session: 2024-25

Month	Unit	Topic	Sub Topic
July	1	Theory: A Brief History of Indian Dance. Practical	Dances During Vedic Period, Nritya During Aryan Period,Nritya During Ramayan, Nritya During Mahabharat, Nritya During Buddha Period
			Practice of Basic Standing and Sitting Positions: Pada and Mandala bhedas, Adavus: Tatta Adavus, Natya Adavus,Ta Tei Tei Ta Adavus, Kudittu Mettu Adavus
August	2	Theory: A Brief History of Indian Dance.	Nritya During 3 rd Century AD, 4 th Century AD, Rajput Period, Mughal Period, European Period, Post Independence
		Practical	Griha Bhed, Shirovbeda, Drishtibhed, Tei Ya Teiyi Standing Adavus,Tat Tei Ta Ha Adavus,Tat Tei Tarn Adavus,Kattu Adavu And Allied Utplavanaadavus
Block Test I			
September	3	Theory: A History of Bharatanatyam	Mythological Reference from The Natyotpatti In The Abhinaya Darpanam, Evolution of The Different Schools of Bharatanatyam - Tanjavur, Pandanallur and Vazhuvur, Contribution of The Tanjore Quartet
		Practical	Tadhinginatom, Kitatakatarikitatom, Mandiadavu, Sarukkai Adavu and Revision of Previous Adavus and Padavedas and Mandalvedas
October - November	5	Theory: Acquaintance with The Themes of Ramayana, Gita Govinda, Bhagavata Purana	Ramayan-Names of All Kandas, Sita Swayamvaram, Rama Vanagamanam, Surpanakha Prasangam, Sita Haranam, Choodamani Pradanam GITAGOVINDA : Samoda Damodaram - Lalita Lavangalata, Hariiha, Aklesha Keshava - Rase Harim Iha, Mugdha Madhusudana - Hari Hari Hatadarataya Vilakshya Lakshmiipatih - Yahi Madhava Chatura Chaturbhuja - Priye Charushile: Sanjeevani Ashtapadi). Acquaintance With Other Myths and Legends Pertinent to The Dance Form, The Cosmic Dance of Siva And Significance of

Dance (Bharatnatyam)

Session: 2024-25

Contd. 2

Month	Unit	Topic	Sub Topic
October - November	5	Theory: Acquaintance With The Themes of Ramayana, Gita Govinda, Bhagavata Purana	Nataraja, The Story of Mahishasura Mardini, The Legend of ganesha, BHAGAVATA PURANA - Names of All Skandas (Sadhana Skanda Dashavatar, Purushartha Skanda - Daksha, Dhruva, Sthiti Skanda - The Story of Manu And The Description of The World, Vasan Skanda - Prahlada and Nirodha Skanda - Birth and Life of Krishna)
		Practical	Simple Korvais In Adi Talam for 1-2Avartana,Simple Forward And Backward Gaits In Tisra and Chatusra (Count Of 3 And 4)
Unit Test III			
December	6	Theory: Acquaintance With Its Repertoire and Literary Contents	Definition of The Musical Terms Used In Dancepushpanjali, Mallari, Kautuvam, Alaripu, Jatiswaram, Shabdham, Varnam, Keertanam, Padam, Ashtapadi, Javali And Thillana.
		Practical	Alarippu-Tisra Ekatalam
January	7	Theory: Distinctive Aspects of Bharatanatyam	: Costume and Jewelry, Language And Musicstyle, Technical Aspects of Performance, Basicposture.
	8	Revision	All Unit Revision.
		Practical	Tala-Adi Talam and Rupaka Talam With Hastakriya and Ability to Repeat Theadavu Syllabi In Trikala In The Appropriatetalam.
Block Test II			