# DELHI PUBLIC SCHOOL
# RUBY PARK, KOLKATA

# SYLLABUS

## Class 11

# ENGLISH  Session: 2023-24

| 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 | |
| MAY | 2 | Listening & Speaking | Classified Advertisement | Tenses | The Summer of the Beautiful White Horse |
| | | | | | A Photograph (Poem) |
| JUNE | 3 | Note Making & Summarizing | Speech/Debate | Re-ordering of sentences/ Transformation of sentences | We're Not Afraid to Die |
| JULY | 4 | Note Making & Summarizing | Classified Advertisement | Integrated Exercises | Discovering Tut |
| | | | | | The Laburnum Top (poem) |
| UNIT TEST 1 | | | | | |
| AUGUST | 5 | ASL | Speech Debate | Transformation of Tenses | The Address |
| | | | | | The Voice of the Rain (Poem) |
| SEPTEMBER | REVISION AND BLOCK TEST I | | | | |
| OCTOBER | 6 | Summary Writing | Article Writing | Clauses-Nominal, Relative, Adverbial | Father to Son (Poem) |
| NOVEMBER | 7 | ASL | Poster | Exercises on identification of clauses | Childhood (Poem) |
| | | | Advertisement | | Mother's Day |
| | | | | | Birth |
| NOVEMBER | UNIT TEST 2 | | | | |
| DECEMBER | 8 | ASL | Article Writing | Tenses | The Adventure |
| | | | | | Silk Road |
| JANUARY | UNIT TEST 3 | | | | |
| JANUARY | 9 | Note Making | Speech/Debate | Cloze passage | The Tale of Melon City (Poem) |
| | | Summarizing | | | |
| FEBRUARY | BLOCK TEST II | | | | |

# BIOLOGY  Session: 2023-24

| MONTH | UNIT | TOPIC |
|---|---|---|
| JUNE | CELL: STRUCTURE AND FUNCTIONS | CELL: THE UNIT OF LIFE |
| JUNE | DIVERSITY IN THE LIVING WORLD | LIVING WORLD |
| JULY | DIVERSITY IN THE LIVING WORLD | BIOLOGICAL CLASSIFICATION |
| JULY | DIVERSITY IN THE LIVING WORLD | PLANT KINGDOM |
| JULY | DIVERSITY IN THE LIVING WORLD | ANIMAL KINGDOM |
| JULY | CELL: STRUCTURE AND FUNCTIONS | CELL CYCLE AND CELL DIVISION |
| **UNIT TEST-I** | | |
| AUGUST | CELL: STRUCTURE AND FUNCTIONS | BIOMOLECULES |
| AUGUST | STRUCTURAL ORGANISATION IN PLANTS AND ANIMALS | MORPHOLOGY OF FLOWERING PLANTS |
| AUGUST | STRUCTURAL ORGANISATION IN PLANTS AND ANIMALS | ANATOMY OF FLOWERING PLANTS |
| SEPTEMBER | STRUCTURAL ORGANISATIONS IN PLANTS AND ANIMALS | STRUCTURAL ORGANISATION OF ANIMALS |
| **BLOCK TEST- I** | | |
| OCTOBER | PLANT PHYSIOLOGY | PHOTOSYNTHESIS IN HIGHER PLANTS |
| OCTOBER | PLANT PHYSIOLOGY | RESPIRATION IN HIGHER PLANTS- INTRODUCTION |
| NOVEMBER | PLANT PHYSIOLOGY | RESPIRATION IN HIGHER PLANTS- CONTINUED |
| NOVEMBER | PLANT PHYSIOLOGY | PLANT GROWTH AND DEVELOPMENT |
| NOVEMBER | HUMAN PHYSIOLOGY | BREATHING AND EXCHANGE OF GASES |
| **UNIT TEST- II** | | |
| DECEMBER | HUMAN PHYSIOLOGY | BODY FLUIDS AND CIRCULATION |
| DECEMBER | HUMAN PHYSIOLOGY | EXCRETORY PRODUCTS AND THEIR ELIMINATION |
| DECEMBER | HUMAN PHYSIOLOGY | LOCOMOTION AND MOVEMENT (INTRODUCTION) |
| JANUARY | HUMAN PHYSIOLOGY | LOCOMOTION AND MOVEMENT (TO BE CONTINUED) |
| JANUARY | HUMAN PHYSIOLOGY | NEURAL CONTROL AND CO-ORDINATION |
| JANUARY | HUMAN PHYSIOLOGY | CHEMICAL CO-ORDINATION AND INTEGRATION |
| FEBRUARY | **BLOCK TEST- II** | |

# MATHEMATICS Session: 2023-24

| MONTH | TOPICS | SUB-TOPICS |
|---|---|---|
| **APRIL - MAY** | SETS, RELATIONS AND FUNCTIONS | • Sets and their representations.<br>• Types of sets: Empty set, Finite and Infinite sets, Equal sets, Subsets, Subsets of a set of real numbers especially intervals (with notations). Universal set.<br>• Venn diagrams.<br>• Operations on sets: Union and Intersection of sets. Difference of sets. Complement of a set. Properties of Complement.<br>• 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 (upto) R x R x R.<br>• Definition of relation, pictorial diagrams, domain, co-domain and range of a relation.<br>• 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. |
| **JUNE** | TRIGONOMETRY | • Positive and negative angles.<br>• Measuring angles in radians and in degrees and conversion from one measure to another.<br>• 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.<br>• Domain and range of trigonometric functions and their graphs.<br>• Expressing $\sin(x \pm y)$ & $\cos(x \pm y)$ in terms of $\sin x$, $\sin y$, $\cos x$ & $\cos y$ and their simple applications.<br>• Deducing of various trigonometric identities, based on identities related to $\sin 2x$, $\cos 2x$, $\tan 2x$, $\sin 3x$, $\cos 3x$ & $\tan 3x$.<br>• Trigonometric Functions of Sum and Difference of Two Angles |
| **JUNE-JULY** | COMPLEX NUMBERS , QUADRATIC EQUATIONS | • Need for complex numbers, especially $\sqrt{-1}$ to be motivated by inability to solve some of the quadratic equations.<br>• Algebraic properties of complex numbers.<br>• Argand plane. |
| **JULY** | LINEAR INEQUALITIES | • Algebraic Solutions of linear inequalities in one variable and their representation on the number line. |
| **JULY** | | **UNIT TEST I** |

# MATHEMATICS Session: 2023-24

*contd.*

| MONTH | TOPICS | SUB-TOPICS |
|---|---|---|
| **AUGUST** | SEQUENCE AND SERIES | • Arithmetic Mean (A.M.) <br>• 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.), <br>• Relation between A.M. and G.M. |
| | STRAIGHT LINES | • Brief recall of two dimensional geometry from earlier classes. <br>• Slope of a line and angle between two lines. <br>• Various forms of equations of a line: parallel to axis, point -slope form, slope-intercept form, two-point form, intercept form, <br>• Distance of a point from a line. |
| **SEPTEMBER** | **BLOCK TEST I** | |
| **OCTOBER** | PERMUTATIONS AND COMBINATIONS | • Fundamental principle of counting. <br>• Factorial $n. \ (n!)$ <br>• Permutations and combinations, derivation of Formulae for $^{n}p_{r}$ and $^{n}c_{r}$ and their connections. <br>• Simple applications. |
| | BINOMIAL THEOREM | • Historical perspective, <br>• Statement and proof of the binomial theorem for positive integral indices. <br>• Pascal's triangle, <br>• Simple applications. |
| | CONIC SECTIONS: CIRCLE, PARABOLA | • Sections of a cone: circles, parabola, a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section. <br>• Standard equations and simple properties of parabola. <br>• Standard equation of a circle. |
| **NOVEMBER** | ELLIPSE, HYPERBOLA | • Section of a cone:ellipse, Standard equations and simple properties of ellipse. <br>• Hyperbola. Standard equation and simple properties of Hyperbola. |
| | INTRODUCTION TO 3-DIMENTIONAL GEOMETRY | • Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. <br>• Distance between two points. |
| **NOVEMBER** | **UNIT TEST 2** | |
| **DECEMBER** | PROBABILITY | • Events; occurrence of events, 'not', 'and' and 'or' events, exhaustive events, mutually exclusive events, <br>• Axiomatic (set theoretic) probability, connections with other theories of earlier classes. <br>• Probability of an event, probability of 'not', 'and' and 'or' events. |

# MATHEMATICS Session: 2023-24

*contd.*

| MONTH | TOPICS | SUB TOPICS |
|---|---|---|
| | 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.<br>• Intuitive idea of limit. Limits of polynomials and rational functions trigonometric, exponential and logarithmic functions.<br>• Definition of derivative relate it to scope of tangent of the curve, derivative of sum, difference, product and quotient of functions.<br>• Derivatives of polynomial and trigonometric functions. |
| **FEBRUARY** | **BLOCK TEST II** | |

# DELHI PUBLIC SCHOOL
## RUBY PARK, KOLKATA

**CBSE**

# PHYSICS   Session: 2023-24

| MONTH | CHAPTER | TOPICS | SUB TOPICS |
|---|---|---|---|
| APRIL | 1 & II | Physical World, units and Measurement | Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. significant figures. Dimensions of physical quantities, dimensional analysis and its applications. |
| | | Calculus | Elementary concepts of differentiation and integration for describing motion. |
| MAY | III | Motion in a Straight line | Frame of reference, Motion in a straight line, Elementary concepts of differentiation and integration for describing motion, 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 - I | | | |
| 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: 2023-24

*contd.*

| 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 geometrical objects (no derivation). |
| | BLOCK TEST 1 | | |
| SEPTEMBER | 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 | Mechanical Properties of Fluid | 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 . |
| | UNIT TEST - II | | |

# PHYSICS Session: 2023-24

*contd.*

| MONTH | CHAPTER | TOPICS | SUB TOPICS |
|---|---|---|---|
| DECEMBER | XII | Thermodynamics | Thermal equilibrium and definition of temperature zeroth law of thermodynamics, heat, work and internal energy. First law of thermodynamics, Second law of thermodynamics: 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 ofexpression 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. |
| FEBRUARY | BLOCK TEST II | | |

# CHEMISTRY  Session: 2023-24

| MONTH | UNIT NO. | TOPIC | SUB TOPIC |
|-------|----------|-------|-----------|
| APRIL | I | SOME BASIC CONCEPTS OF CHEMISTRY | • Importance and scope of chemistry, Nature of matter<br>• Laws of chemical combination, Dalton's atomic theory: concept of elements, atoms and molecules.<br>• Atomic and molecular masses, mole concept and molar mass, percentage composition, empirical and molecular formula<br>• Chemical reactions, stoichiometry and calculations based on stoichiometry reactions. |
| MAY | 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. |
| JUNE | II | STRUCTURE OF ATOM | • Discovery of electrons, proton, neutron, atomic number, isotopes, isobars<br>• Thomson model, limitation, Rutherford model , limitation<br>• Bohr's model and its limitations.<br>• Concept of shells and subshells<br>• Dual nature of matter and light, de Broglie's relationship<br>• Heisenberg uncertainty principle<br>• Concept of orbitals, quantum numbers, shapes of s, p and d orbitals<br>• Rules for filling electrons in orbitals - Aufbau principle, Pauli's exclusion principle and Hund's rule.<br>• Electronic configuration of atoms, stability of half-filled and completely filled orbitals. |
| JULY | III | CLASSIFICATION OF ELEMENTS & PERIODICITY IN PROPERTIES | • Significance of classification, brief history of devel- opment of periodic table.<br>• Modern periodic law and the present form of periodic table<br>• Periodic trends in properties of elements -atomic radii, ionic radii, inert gas radii, Ionization enthalpy, electron gain enthalpy, electronegativity, valency.<br>• Nomenclature of elements with atomic number greater than 100 |

# CHEMISTRY
Session: 2023-24

*contd.*

| MONTH | UNIT NO. | TOPIC | SUB TOPIC |
|---|---|---|---|
| JULY | IV | CHEMICAL BONDING & MOLECULAR STRUCTURE | • Valence electrons, ionic bond, covalent bond, bond parameters, Lewis structure<br>• Polar character of covalent bond, covalent charac- ter of ionic bond<br>• Valence bond theory, resonance<br>• Geometry of covalent molecules, VSEPR theory<br>• Concept of hybridization, involving s, p and d orbitals and shapes of some simple molecules<br>• Molecular orbital theory of homonuclear diatomic molecules (qualitative idea only), hydrogen bond |
| | | **UNIT TEST -I** | |
| AUGUST | VI | EQUILIBRIUM | • Equilibrium in physical and chemical processes, dynamic nature of equilibrium<br>• law of mass action, equilibrium constant<br>• factors affecting equilibrium- Le Chatelier's principle<br>• Ionic equilibrium- ionization of acids and bases, strong and weak electrolytes, degree of ionization, ionization of poly basic acids, acid strength, concept of pH<br>• Henderson Equation, hydrolysis of salts (elementary idea), buffer solution, solubility product, common ion effect (with illustrative examples) |
| | | **BLOCK TEST - I** | |
| SEPTEMBER | V | CHEMICAL THERMODYNAMICS | Concepts of System and types of systems, surroundings, work, heat, energy, extensive and intensive properties, state functions. |
| OCTOBER | | | • First law of thermodynamics -internal energy and enthalpy, heat capacity and specific heat, measurement of $\Delta U$ and $\Delta H$.<br>• Hess's law of constant heat summation, enthalpy of bond dissociation, combustion, formation, atomization, sublimation, phase transition, ionization, solution and dilution.<br>• 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.<br>• Third law of thermodynamics (brief introduction). |

# CHEMISTRY Session: 2023-24

*contd.*

| MONTH | UNIT NO. | CHAPTER | CONTENTS |
|---|---|---|---|
| **NOVEMBER & DECEMBER** | VIII | ORGANIC CHEMISTRY-SOME BASIC PRINCIPLES & TECHNIQUES | <ul><li>Classification and IUPAC nomenclature of organic compounds. Isomerism</li><li>Electronic displacements in a covalent bond: inductive effect, electromeric effect, resonance and hyper conjugation.</li><li>Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions, electrophiles and nucleophiles, types of organic reactions.</li></ul> |
| **DECEMBER** | | | **UNIT TEST- II** |
| **JANUARY** | IX | HYDROCARBONS | <ul><li>Alkanes - Nomenclature, isomerism, conformation (ethane only),</li><li>physical properties, chemical reactions including free radical mechanism of halogenation, combustion and pyrolysis.</li><li>Alkenes - Nomenclature, structure of double bond (ethene), geometrical isomerism, physical properties, methods of preparation</li><li>Chemical reactions: addition of hydrogen, halogen, water, hydrogen halides (Markownikov's addition and peroxide effect), ozonolysis, oxidation, mechanism of electrophilic addition.</li><li>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.</li><li>Aromatic Hydrocarbons: Introduction, IUPAC nomenclature, benzene: resonance, aromaticity,</li><li>Chemical properties: mechanism of electrophilic substitution. Nitration, sulphonation, halogenation, Friedel Craft's alkylation and acylation,</li><li>Directive influence of functional group in monosubstituted benzene. Carcinogenicity and toxicity.</li></ul> |
| **FEBRUARY** | | | **BLOCK TEST-II** |

# ECONOMICS Session: 2023 -24

| MONTH | UNIT | TOPIC | SUB-TOPIC |
|---|---|---|---|
| APRIL | PART B (MICROECONOMICS), 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, sampling method of data collection, sources of secondary data- census and NSSO. Meaning and types of variable, 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. |
| JUNE | PART B (MICROECONOMICS), 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 (MICROECONOMICS), UNIT 5. | Consumer's equilibrium and demand. | Indifference curve analysis of consumer's equilibrium, budget set and budget line, indifference curve and indifference map, prfrences of the consumer and condition of consumer's equilibrium. Demand, market demand, factors affecting demand, demand schedule, demand curve, shift and movement along demand curve. Price elasticity of demand and factors affecting price elasticity of demand- percentage method and total expenditure method. |
| UNIT TEST 1 | | | |
| AUGUST | PART A 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, retutns to factor.Short run costs- total, fixed and variable. Average cost, average fixed cost and average variable cost marginal cost-meaning and their relationship. Total, average and marginal revenue-meaning and relationship |

# ECONOMICS Session: 2023 -24

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| MONTH | UNIT | TOPIC | SUB-TOPIC |
|---|---|---|---|
| SEPTEMBER | BLOCK TEST 1 | | |
| OCTOBER | PART B (MICROECONOMICS), UNIT 6 | Producer's equilibrium. Theory of supply and its elasticitty | Producer's equilibrium-meaning, condition in MR-MC approachSupply, market supply, determinants of supply, supply schedule, supply curve and its slope, movement along and shift in supply curve, price elasticity of supply and its measurement by percentage method. |
| 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). |
| NOVEMBER AND DECEMBER | UNIT TEST 2 | | |
| DECEMBER | PART B (MICROECONOMICS), UNIT 7 | Forms of market and determination of per unit price of a good in a perfectly competitive market. | Pefect 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. Revision | Meaning, types, wholesale price index, consumer's price index, index of industrial production, uses of index numbers- inflaton and index numbers, simple aggregative method. |
| FEBRUARY | BLOCK TEST 2 | | |

# ACCOUNTANCY  Session: 2023-24

| MONTH | TOPIC | SUB TOPIC |
|---|---|---|
| APRIL | Introduction to Accounting | Transactions-meaning features, types. Objective of accounting, accounting concepts and accounting principles |
| | Theory Base of Accounting | Accounting Terminology |
| | Accouning Process | Accounting Equation |
| MAY | Double Entry System | Golden Rule, Debit & Credit, Classification of Journals and Source documents |
| JUNE | Double Entry System | Journalising (contd along with GST), ledger posting and balancing of accounts |
| JULY | | Cash Book (single, double column) and Petty Cash Book |
| | UNIT TEST 1 | |
| AUGUST | Subsidiary Books and Trial Balance(including theory) | Purchase and Sales Day Book; Purchase return and sales return Day Book (excluding B/R and B/P day book) and Ledger posting |
| | | Trial Balance |
| | Trial Balance and Rectification of Errors (including theory) | Trial Balance with corrections and Rectification of Errors |
| | Bank Reconciliation State-ment(including theory) | Bank Reconciliation Statement (excluding amended cash book) |
| | BLOCK TEST 1 | |
| SEPTEMBER | Rectification of Errors | Retification of errors detected before and after preparation of trial Balance and preparation of suspense account |
| OCTOBER | | Rectification continued |
| | Depreciation (including theory) | Depreciation - Method,reason for Charging depreciation. Straight Line Method only |
| NOVEMBER | Depreciation | Depreciation - Written down value method, provision for depreciation and Asset Disposal A/c. |
| | Provision and Reserves (Theory) | Meaning and types of reserves and provisions |

# ACCOUNTANCY Session: 2023-24

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

# BUSINESS STUDIES Session: 2023-24

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

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**CBSE**

# BUSINESS STUDIES  Session: 2023-24

*contd.*

| MONTH | TOPIC | SUB TOPIC |
|---|---|---|
| **OCTOBER** | Sources of Business Finance | Meaning and need for Business Finance, Sourc- es of business finance ownership basis, Retained Earnings, Issue of equity shares, Prefernce shares |
| | | ADR, GDR, IDR, Borrowed Fund - Debenture and Bonds, Loans from Commercial Banks and Financial Institutions, Public Deposit, Trade Credit and ICD. |
| **NOVEMBER** | Small Business | Entrepreneurship Development concept characteristics and need, Definition of Small Scale Enterprise, Role of Small Business in India with special Refernce to Rural Areas |
| | | Government Scheme and Agencies - NSIC and DIC with special reference to Rural, Backward and Hilly Area and written work |
| **DECEMBER** | **UNIT TEST II** | |
| | Internal Trade | GST concept and key features, Services of a wholeseller, 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 2** | |

# ENTREPRENEURSHIP Session: 2023-24

| 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 1 | | |
| SEPTEMBER | Entrepreneurial Journey | 3. Business plan: meaning, purpose and elements |
| | | 4. Execution of Business Plan |
| OCTOBER | 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, Impoatance and Process |
| | | 4. Marketing Mix |
| 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 |
| FEBRUARY | BLOCK TEST 2 | |

# COMPUTER SCIENCE Session: 2023-24

| 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 conversion (explicit & implicit conversion), accepting data as input from the console and displaying output. |
| JUNE | Conditional And Iterative Statements | Flow of control: introduction, use of indentation, sequential flow, conditional and iterative flow control Conditional statements: if, if-else, if-elif-else |
| | | Programs on conditional statements |
| 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) Types of software: system software (operating systems, system utilities, device drivers), programming tools and language translators (assembler, compiler & interpreter), application software |
| | | Operating system (OS): functions of operating system, OS user interface. Encoding schemes: ASCII, ISCII and UNICODE (UTF8, UTF32) Emerging trends: Cloud computing, cloud services (SaaS, IaaS, PaaS), blockchains, Artificial Intelligence (AI), Machine Learning (ML), Internet of Things (IoT) |

# COMPUTER SCIENCE Session: 2023-24

*contd.*

| 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 Programs | Errors: syntax errors, logical errors, runtime errors |
| **NOVEMBER** | Tuples | introduction, indexing, tuple operations (concatenation, repetition, membership & slicing) |
| | | Built-in functions: len(), tuple(), count(), index(), sorted(), min(), max(), sum(); tuple assignment, nested tuple. |
| **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 |

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**CBSE**

# COMPUTER SCIENCE Session: 2023-24

*contd.*

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

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# HISTORY  Session: 2023-24

| MONTH | UNIT | TOPIC |
|-------|------|-------|
| APRIL - MAY | 1 | Writing and City Life |
| JUNE | 2 | An Empire across Three Continents |
| JULY | | UNIT TEST - I |
| JULY - AUGUST | 3 | Nomadic Empires |
| SEPTEMBER | | BLOCK TEST 1 |
| SEPTEMBER & OCTOBER | 4 | The Three Orders |
| NOVEMBER | 5 | Changing Cultural Traditions |
| DECEMBER | | UNIT TEST - II |
| JANUARY | 6 | Displacing Indigenous people |
| JANUARY | 7 | Paths to Modernisation |
| FEBRUARY | | BLOCK TEST II |

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# GEOGRAPHY Session: 2023-24

| FUNDAMENTALS OF PHYSICAL GEOGRAPHY [PART A] | | | |
|---|---|---|---|
| MONTH | UNIT | TOPIC | SUB TOPIC |
| APRIL | I | Geography As a Discipline | Geography as an integrating discipline, as a science of spatial attributes. Branches of Geography: Physical Geography and Human Geography. |
| | II | The Earth | Origin and evolution of the earth; Interior of the earth: Earthquakes and volcanoes: causes, types and effects. Distribution of oceans and continents: Wegener's continental drift theory and plate tectonics. |
| MAY - JUNE | III | Landforms | Geomorphic processes: weathering; mass wasting; erosion and deposition; soil-formation. Landforms and their evolution- Brief erosional and depositional features |
| JULY | UNIT TEST - 1 | | |
| AUGUST | IV | Climate | Atmosphere- composition and structure; elements of weather and climate. Insolation-angle of incidence and distribution; heat budget of the earth-heating and cooling of atmosphere (conduc- tion, convection, terrestrial radiation and advection); temperature- factors controlling tempera- ture; distribution of temperature-horizontal and vertical; inversion of temperature. Pressure-pres- sure belts; winds-planetary, seasonal and local; air masses and fronts; tropical and extratropical cyclones. Precipitation- evaporation; condensation- dew, frost, fog, mist and cloud; rainfall-types and world distribution. Climate and Global Concerns [THIS CHAPTER TO BE TESTED INTERNALLY THROUGH PROJECT] |
| SEPTEMBER | BLOCK TEST 1 | | |
| OCTOBER - NOVEMBER | V | Water (Oceans) | Basics of Oceanography |
| | | | Oceans - distribution of temperature and salinity. Movements of ocean water-waves, tides and currents; |
| UNIT TEST - 2 | | | |
| DECEMBER | V | Water (Oceans) | submarine relief. Ocean resources and pollution |
| | VI | Life On Earth | Biosphere - importance of plants and other organ- isms; biodiversity and conservation. [TO BE TESTED THROUGH PROJECT] |
| FEBRUARY | BLOCK TEST 2 | | |

Block Test 2 Syllabus As Per CBSE Specification

# GEOGRAPHY Session: 2023-24

*contd.*

| INDIA-PHYSICAL ENVIRONMENT [PART B] | | | |
|---|---|---|---|
| MONTH | UNIT | TOPIC | SUB TOPIC |
| APRIL | VII | Introduction | Location, space relations, India's place in the world |
| MAY AND JUNE | VIII A | Physiography | Structure And Relief; Physiographic Divisions |
| JULY | UNIT TEST - 1 | | |
| | VIII B | Physiography | Drainage systems: Concept of river basins, watershed; the Himalayan and the Peninsular rivers |
| JULY AND AUGUST | IX A | Climate | Weather And Climate - Spatial And Temporal Distribution Of Temperature. Indian Monsoon: Mechanism, Onset And Withdrawal, |
| SEPTEMBER | BLOCK TEST 1 | | |
| OCTOBER NOVEMBER | IX B | Natural Vegetation | Natural vegetation-forest types and distribution; wild life; conservation; biosphere reserves |
| UNIT TEST - 2 | | | |
| DECEMBER | X | Natural Hazards | Floods, Cloudbursts . Droughts: types and impact. [TO BE TESTED THROUGH PROJECT] |
| | X | Natural Hazards | Earthquakes and Tsunami. Cyclones: features and impact. Landslides. [TO BE TESTED THROUGH PROJECT] |
| FEBRUARY | BLOCK TEST 2 | | |

# POLITICAL SCIENCE   Session: 2023-24

| MONTH | UNITS/ CHAPTERS | INDIAN CONSTITUTION AT WORK | |
| --- | --- | --- | --- |
| | | TOPIC | SUB-TOPIC |
| APRIL-MAY | 1 | Constitution: Why and How? | Why do we need a Constitution? The authority of a Constitution, How was the Indian Constitution made? Provisions adapted from Constitutions of different countries. |
| | 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? |
| JUNE | 5 | The Executive | Parliamentary Executive in India; What is an Executive; Different Types of Executive Powers and Position of the President Prime Minister and the Council of Ministers Permanent Executive- The Bureaucracy |
| | 6 | The Judiciary | Why do we need an independent judiciary? - Independence of Judiciary - Appointment of Judges - Removal of Judges Structure of the Judiciary Jurisdiction of Supreme Court Judicial Activism Judiciary and Rights Judiciary and Parliament |
| JULY | 7 | Federalism | 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 |
| JULY | 8 | Local Governments | Necessity of Local Governments; Growth of Local Governments in India; "73rd and 74th Amendments; Working and Challenges of Local Governments" |

# POLITICAL SCIENCE  Session: 2023-24

*contd.*

| MONTH | UNITS/ CHAPTERS | INDIAN CONSTITUTION AT WORK | |
|---|---|---|---|
| | | TOPIC | SUB-TOPIC |
| | | UNIT TEST 1 | |
| 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 |
| | | POLITICAL THEORY | |
| | 11 | 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? |
| | 12 | Freedom | The sources of Constraints-Why do we need constraints? The Harm Principle Negative and Positive Liberty |
| SEPTEMBER-OCTOBER | 13 | Equality | Equality Why does equality matter? • Equality of opportunities • Natural and Social Inequalities Three dimensions of equality Feminism, Socialism, How can we promote equality? |
| | | BLOCK TEST 1 | |
| | 14 | 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 |

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# POLITICAL SCIENCE   Session: 2023-24

*contd.*

| MONTH | UNITS/ CHAPTERS | INDIAN CONSTITUTION AT WORK | |
|---|---|---|---|
| | | TOPIC | SUB-TOPIC |
| SEPTEMBER-OCTOBER | 15 | Rights | What are Rights?<br>Where do rights come from?<br>Legal rights and the state<br>Kinds of rights<br>Rights and responsibilities |
| UNIT TEST 2 | | | |
| NOVEMBER-DECEMBER | 16 | Citizenship | Introduction<br>Full and equal membership, Equal Rights, Citizen and Nation, Universal Citizenship, Global Citizenship |
| | 17 | Nationalism | Introduction ; Full and equal membership ; Equal Rights ; Citizen and Nation ; Universal Citizenship ; Global Citizenship |
| JANUARY | UNIT TEST 2 | | |
| | 18 | Secularism | What is Secularism?<br>• Inter-religious Domination<br>• Intra-religious Domination, Secular State, The western model of secularism, The Indian model of secularism |
| FEBRUARY | BLOCK TEST 2 | | |

# PSYCHOLOGY   Session: 2023-24

| MONTH | UNITS CHAPTERS | 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) |
| JUNE | 3 | Practical 2 | Highlighting Adolescence as "a period of stress and storm" through newspaper or magazine cut outs and relevant research. |
| | | Human Development | Development,growth and maturation |
| | | | Overview of developmental stages. |
| | | | Infancy, childhood, adulthood etc. |
| JULY | 4 | Sensory attentional perceptual processes | Sense modalities, adaptation, and atten- tional 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 1** | | | |
| AUGUST | 5 | Practical 3 | Psychology of Advertisements: Highlighting the factors of attention that attracts the potential customers. |
| | | Learning | Nature of learning |
| | | | Classical and Operant conditioning |
| | | | Concept and Skill learning, Verbal learning |
| | | | Learning styles and Specific Learning Disorders |
| | | | Application of learning Principles |
| SEPTEMBER | | | **Block Test 1** |

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# PSYCHOLOGY Session: 2023-24

*contd.*

| MONTH | UNITS CHAPTERS | TOPIC | SUB-TOPIC |
|---|---|---|---|
| OCTOBER | 6 | Human Memory | Nature of memory, Information Processing approach of memory. |
| | | | Knowledge representation and processes. |
| | | | Nature and causes of forgetting |
| | | | Enhancing Memory |
| NOVEMBER | 7 | Thinking | Nature of Thinking |
| | | | Thought and language |
| | | | Reasoning, problem solving, decision making |
| | | | Nature and process of creative thinking |
| | | | Developing creativity |
| | **UNIT TEST 2** | | |
| DECEMBER | 8 | 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. |
| | | Motivation and Emotion | Nature of motivation |
| | | | Motives- Biological and psychosocial, Mc Clleland's theory |
| | | | Maslow's Hierarchy of needs |
| | | | Emotion-concepts and definitions |
| | | | Emotional expressions |
| | | | Theories of emotions |
| | | | Managing Negative emotion |
| JANUARY | **BLOCK TEST 2** | | |
| FEBRUARY | | | |

# PHYSICAL EDUCATION  Session: 2023-24

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

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**CBSE**

# PHYSICAL EDUCATION  Session: 2023-24

*contd.*

| MONTH | UNIT | TOPIC | SUB TOPIC |
|---|---|---|---|
| OCTOBER | 6 | Test, Measurment & 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 - 2 | |
| 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 |
| 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: Over Load, Adaptation, and Recovery |
| | | | Warming-up & Limbering Down – Types, Method & Importance |
| | | | Concept of Skill, Technique, Tactics & Strategies |
| | | | Concept of Doping and its disadvantages |
| FEB | BLOCK TEST - 2 | | |

# LEGAL STUDIES  Session: 2023-24

| MONTH | UNITS/ CHAPTER | TOPIC | SUB TOPIC |
|---|---|---|---|
| **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 |
| | | 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 |
| **AUGUST** | Unit 2 Basic Features of the Constitution | 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 | Backgound; Administrative Law and Constitutional Law; Reasons for Growth, Development and Study of Administrative Law, Types of Administrative Actions, Rule of Law, Droit System |
| **UNIT TEST 1** | | | |
| **AUGUST** | 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 |
| **SEPTEMBER** | | 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 |

# LEGAL STUDIES   Session: 2023-24

*contd.*

| MONTH | UNITS/ CHAPTER | TOPIC | SUB TOPIC |
|---|---|---|---|
| **BLOCK TEST 1** | | | |
| **OCTOBER** | Unit 3 Jurisprudence, Nature and Sources of Law | Chapter 5 Cyber Laws, Safety and Security in India | Why do we need Cyber Laws? <br> What is Cyber Law? <br> What is Cyber safety and Security? <br> What is cyber Crime? <br> Categories of Cyber Crime <br> 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 | i.   Introduction: Establishment of the Supreme Court and High Courts <br> ii.  CONSTITUTION, ROLES AND IMPARTIALITY <br>      a. Independence and Impartiality of the Supreme Court <br>      b. Structure and Hierarchy of the Courts in India <br>      c. The civil process and functioning of Civil courts <br> iii. THE CIVIL COURT STRUCTURE <br>      a. Common legal terminology <br>      b. Types of jurisdiction <br>      c. Res subjudice and Res judicata in code of civil procedure 1908 <br> iv.  STRUCTURE AND FUNCTIONING OF CRIMINAL COURTS IN INDIA <br>      a) Types of offences <br>      b) Criminal investigation and First Information Report <br>      c) The criminal process- Investigation and prosecution <br>      d) Doctrine of autrefois acquit and autrefois convict <br> v.   Other courts in India <br>      a) Family Courts <br>      b) Administrative Tribunals |
| **UNIT TEST 2** | | | |

# LEGAL STUDIES  Session: 2023-24

*contd.*

| MONTH | UNITS/ CHAPTER | TOPIC | SUB TOPIC |
|---|---|---|---|
| DECEMBER | Unit 5 Family Justice System | Chapter 1 Institutional Framework- Marriage and Divorce | I. Nature of Family law in India<br>II. Human rights and gender perspective<br>III. Institutional framework- family Courts<br>IV. Role of women in the creation of family courts<br>V. Role of lawyers and counselors in Family courts<br>VI. Role of counselors and gender issues<br>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?<br>II.  International legal framework<br>III. Laws in India on prevention of violence against women |
| FEBRURARY | BLOCK TEST 2 | | |

# PAINTING Session: 2023-24

| MONTH | UNIT | TOPIC | SUB TOPIC |
|---|---|---|---|
| **JULY** | 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 |
| | 2 | Buddhist, Jain and Hindu Art. | Mauryan, Shunga, Kushana and Gupta period: Introduction |
| | | | Lion Capital from Sarnath |
| | | | Chauri Bearer from Didar Ganj |
| **AUGUST & SEPTEMBER** | 2 | Buddhist, Jain and Hindu Art. | Seated Buddha from Katra Mound |
| | | | Jain Tirathankara |
| | **UNIT TEST 1** | | |
| | 3 | Temple Sculpture | Ajanta: Introduction |
| | | | Indian Temple sculpture |
| | | | Descent of Ganga |
| | | | Trimuti |
| **BLOCK TEST 1** | | | |
| **OCTOBER** | 3 | Temple Sculpture | Lakshmi Narayana |
| | | | Cymbal Player |
| **NOVEMBER** | 3 | Indian bronze | Mother and Child |
| | | | Indian bronze: Introduction |
| **UNIT TEST 2** | | | |
| **DECEMBER** | 3 | Indian bronze | Nataraj |
| **JANUARY** | 3 | Indo Islamic Architecture | Qutub Minar |
| | | | Gol Gumbad, Bijapur |
| **JANUARY & FEBRUARY** | 3 | Revision | Pre-Historic rock paintings and Art of Indus Valley. |
| | | | Buddhist, Jain and Hindu Art. |
| | | | Temple, Sculpture, Bronze & Islamic Architecture |
| **BLOCK TEST 2** | | | |

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