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Mayo College, Ajmer 1875 AD

**MAYOR WORLD SCHOOL**  
inspiring excellence



## GRADE XII SYLLABUS Session 2026-27

**Books: Vistas (V), Flamingo (F)**

### **ENGLISH**

#### **MARCH**

**Literature:**

**Chapter 2:** Lost Spring(F)

**Poem1:** My Mother at Sixty Six(F)

#### **APRIL**

**Reading Skills:** Comprehension

**Writing Skills:** : Notice Writing

**Literature:**

**Chapter 1:** The Last Lesson(F)

**Chapter 1:** The Third Level(V)

#### **MAY**

**Writing Skills:** Letter to Editor,  
Formal and Informal Invitation and Replies

**Literature:**

**Chapter 3:** Deep Water(F)

**Chapter 2:** The Tiger King (V)

**Poem3:** Keeping Quiet(F)

**Poem 4:** A Thing of Beauty(F)

#### **JULY**

**Writing Skills:** Application for a job with Bio data /Resume

**Literature:**

**Chapter 4:** The Rattrap(F)

**Chapter 5:** Indigo(F)

**Chapter 6:** Poets and Pancakes(F)

#### **AUGUST**

**Writing Skills:** Article writing.

**Literature:**

**Chapter 4:** The Enemy(V)

**Chapter 3:** Journey to the end of the Earth(V)

**Chapter 6:** On the Face of It(V)

**Poem 5:** A Roadside Stand(F)

## **SEPTEMBER**

**Poem 6:** Aunt Jennifer's Tigers (F)

**REVISION**

## **OCTOBER**

**Writing:** Report writing

**Literature:**

**Chapter 7:** Interview(F)

**Chapter 8:** Going Places(F)

**Chapter 8:** Memories of Childhood

(i) The Cutting of My Long Hair

(ii) We Too are Human Beings

## **NOVEMBER**

**Revision of entire syllabus covered Discussion of CBSE-Sample paper**

## **MATHEMATICS**

### **MARCH**

#### **Chapter 3: Matrices**

Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operation on matrices: Addition and multiplication and multiplication with a scalar. Simple properties of addition, multiplication and scalar multiplication. On commutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2). Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entries).

#### **Chapter 4: Determinants**

Determinant of a square matrix (up to  $3 \times 3$  matrices), minors, co-factors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples, solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix.

### **APRIL**

#### **Chapter 4: Determinants(to be continued)**

#### **Chapter 1: Relations and Functions**

Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions.

#### **Chapter 2: Inverse Trigonometric Functions**

Definition, range, domain, principal value branch.

### **MAY**

#### **Chapter 5: Continuity and Differentiability**

Continuity and differentiability, chain rule, derivative of inverse trigonometric functions, derivative of implicit functions. Concept of exponential and logarithmic functions. Derivatives of logarithmic and exponential functions. Logarithmic differentiation, derivative of functions expressed in parametric forms. Second order derivatives.

## JULY

### **Chapter 6: Applications of Derivatives**

Applications of derivatives: rate of change of bodies, increasing/decreasing functions, maxima and minima (first derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as real-life situations).

### **Chapter 7: Integrations**

Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple integrals of the following types and problems based on them.

$$\int \frac{dx}{x^2 \pm a^2}, \int \frac{dx}{\sqrt{x^2 \pm a^2}}, \int \frac{dx}{\sqrt{a^2 - x^2}}, \int \frac{dx}{ax^2 + bx + c}, \int \frac{dx}{\sqrt{ax^2 + bx + c}}, \int \frac{px + q}{ax^2 + bx + c} dx, \int \frac{px + q}{\sqrt{ax^2 + bx + c}} dx$$
$$\int \sqrt{a^2 \pm x^2}$$

$$dx, \int \sqrt{x^2 - a^2} dx, \int \sqrt{ax^2 + bx + c} dx$$

Fundamental Theorem of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals.

## AUGUST

### **Chapter 8: Applications of integrations**

Applications in finding the area under simple curves, especially lines, circles/ parabolas/ellipses (in standard form only)

### **Chapter 12: Linear Programming**

Introduction, related terminology such as constraints, objective function, optimization, graphical method of solution for problems in two variables, feasible and infeasible regions (bounded or unbounded), feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial constraints).

## SEPTEMBER

### **Revisions (for half yearly examination).**

### **Chapter 9 : Differential Equations**

Introduction, Basic concepts, General and Particular solution of a Differential equation, formation of a Differential equation, method of solving first degree, first order Differential Equations

## OCTOBER

### **Chapter 10: Vectors**

Vectors and scalars, magnitude and direction of a vector. Direction cosines and direction ratios of a vector. Types of vectors (equal, unit, zero, parallel and collinear vectors), position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Definition, Geometrical Interpretation, properties and application of scalar (dot) product of vectors, vector (cross) product of vectors.

### **Chapter 11: Three Dimensional Geometry**

Direction cosines and direction ratios of a line joining two points. Cartesian equation and vector equation of a line, skew lines, shortest distance between two lines. Cartesian and vector equation of a plane. Angle between two lines.

### **Chapter 13: Probability**

Conditional probability, multiplication theorem on probability, independent events, total probability, Bayes' theorem, Random variable and its probability distribution, mean variable. Binomial probability distribution.

## **NOVEMBER**

**Revision of entire syllabus covered**  
**Discussion of CBSE-Sample paper**

## **BIOLOGY**

## **MARCH**

### **Unit-VI : Reproduction**

#### **Chapter-2: Sexual Reproduction in Flowering Plants**

Flower structure; development of male and female gametophytes; pollination - types, agencies and examples; outbreeding devices; pollen-pistil interaction; double fertilization; post fertilization events - development of endosperm and embryo, development of seed and formation of fruit; special modes- apomixis, parthenocarpy, polyembryony; Significance of seed dispersal and fruit formation.

## **APRIL**

#### **Chapter-3: Human Reproduction**

Male and female reproductive systems; microscopic anatomy of testis and ovary; gametogenesis- spermatogenesis and oogenesis; menstrual cycle; fertilisation, embryo development upto blastocyst formation, implantation; pregnancy and placenta formation (elementary idea); parturition (elementary idea); lactation (elementary idea).

#### **Chapter-4: Reproductive Health**

Need for reproductive health and prevention of Sexually Transmitted Diseases (STDs); birth control - need and methods; contraception and medical termination of pregnancy (MTP); amniocentesis; infertility and assisted reproductive technologies - IVF, ZIFT, GIFT (elementary ideas for general awareness).

### **Unit-VII Genetics and Evolution**

#### **Chapter-5: Principles of Inheritance and Variation**

Heredity and variation, Mendelian inheritance; deviations from Mendelism – incomplete dominance, co-dominance, multiple alleles and inheritance of blood groups, pleiotropy; elementary idea of polygenic inheritance; chromosome theory of inheritance; chromosomes and genes; linkage and crossing over; Sex determination - in human being, birds, grasshopper and honey bee; Mutation, Pedigree analysis, sex linked inheritance - haemophilia, colour blindness; Mendelian disorders in humans – sickle cell anaemia, Phenylketonuri, thalassemia; chromosomal disorders in humans; Down's syndrome, Turner's and Klinefelter's syndromes.

## **MAY**

### **Chapter-6: Molecular Basis of Inheritance**

Structure of DNA and RNA; DNA packaging;

Search for genetic material and DNA as genetic material; DNA replication; Central Dogma; transcription, genetic code, translation; gene expression and regulation - lac operon; Human genome project; DNA fingerprinting.

## **JULY**

### **Chapter-7: Evolution**

Origin of life; biological evolution and evidences for biological evolution (paleontology, comparative anatomy, embryology and molecular evidences); adaptive radiation; Biological evolution: Lamarck's theory of use and disuse of organs, Darwin's theory of evolution; mechanism of evolution - variation (mutation and recombination) and natural selection with examples, types of natural selection; Gene flow and genetic drift; Hardy - Weinberg's principle; brief account of evolution; human evolution.

### **Unit-VIII Biology and Human Welfare**

#### **Chapter-8: Human Health and Diseases**

Pathogens; parasites causing human diseases (malaria, dengue, chikungunya, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm) and their control; Basic concepts of immunology - vaccines; cancer, HIV and AIDS; Adolescence - drug and alcohol abuse.

## **AUGUST**

### **Revision**

#### **Chapter-10: Microbes in Human Welfare**

Microbes in food processing, industrial production, Antibiotics; production and judicious use, sewage treatment, energy generation and microbes as bio-control agents and bio-fertilizers.

#### **Unit-IX Biotechnology and its Applications**

#### **Chapter-11: Biotechnology - Principles and Processes**

Genetic Engineering (Recombinant DNA Technology).

#### **Chapter-12: Biotechnology and its Applications**

Application of biotechnology in health and agriculture: genetically modified organisms - Bt crops; RNA interference, Human insulin, gene therapy; molecular diagnosis; transgenic animals; biosafety issues, bio piracy and patents.

## **SEPTEMBER**

### **Unit-X Ecology and Environment**

#### **Chapter-13: Organisms and Populations**

Population interactions - mutualism, competition, predation, parasitism; population attributes - growth, birth rate and death rate, age distribution. (Topics excluded: Organism and its Environment, Major Abiotic Factors, Responses to Abiotic Factors, Adaptations)

#### **Chapter-14: Ecosystem**

Ecosystems: Patterns, components; productivity and decomposition; energy flow; pyramids of number, biomass, energy (Topics excluded: Ecological Succession and Nutrient Cycles).

## OCTOBER

### **Chapter-15: Biodiversity and its Conservation**

Biodiversity-Concept, patterns, importance; loss of biodiversity; biodiversity conservation; hotspots, endangered organisms, extinction, Red Data Book, Sacred Groves, biosphere reserves, national parks, wildlife, sanctuaries and Ramsar site.

## NOVEMBER

**Revision of entire syllabus covered**

**Discussion of CBSE-Sample paper**

**Revision of Previous year paper**

## PHYSICS

### MARCH

#### Unit I: Electrostatics

##### **Chapter-1: Electric Charges and Fields**

Electric Charges; Conservation of charge, Coulomb's law-force between two point charges, forces between multiple charges; superposition principle and continuous charge distribution. Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field. Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside).

### APRIL

##### **Chapter-1: Electric Charges and Fields (Conti.)**

##### **Chapter-2: Electrostatic Potential and Capacitance**

Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two point charges and of electric dipole in an electrostatic field. Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarisation, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor(no derivation, formulae only).

#### Unit II: Current Electricity

##### **Chapter-3: Current Electricity**

Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, electrical resistance, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity, temperature dependence of resistance; Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's rules, Wheatstone bridge.

### MAY

#### Unit III: Magnetic Effects of Current and Magnetism

##### **Chapter-4: Moving Charges and Magnetism**

Biot - Savart law and its application to current carrying circular loop. Ampere's law and its applications to infinitely long straight wire. Straight solenoid (only qualitative treatment), force on a moving charge in uniform magnetic and electric fields. Force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors-definition of ampere, torque experienced by a current loop in uniform magnetic field; moving coil galvanometer - its current sensitivity and conversion to ammeter and voltmeter

## **Chapter-5: Magnetism and Matter**

Bar magnet, bar magnet as an equivalent solenoid (qualitative treatment only), magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis (qualitative treatment only), torque on a magnetic dipole (bar magnet) in a uniform magnetic field (qualitative treatment only), magnetic field lines. Magnetic properties of materials- Para-, dia- and ferro - magnetic substances with examples, Magnetization of materials, effect of temperature on magnetic properties.

### **JULY**

## **Unit IV: Electromagnetic Induction and Alternating Currents**

### **Chapter-6: Electromagnetic Induction**

Electromagnetic induction; Faraday's laws, induced EMF and current; Lenz's Law, Self and mutual induction.

### **Chapter-7: Alternating Current**

Alternating currents, peak and RMS value of alternating current/voltage; reactance and impedance; LCR series circuit, resonance; power in AC circuits, power factor, wattless current. AC generator and transformer.

## **Unit V: Electromagnetic waves**

### **Chapter-8: Electromagnetic Waves**

Basic idea of displacement current, Electromagnetic waves, their characteristics, their transverse nature (qualitative idea only). Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses.

### **AUGUST**

## **Unit VI: Optics**

### **Chapter-9: Ray Optics and Optical Instruments**

Ray Optics: Reflection of light, spherical mirrors, mirror formula, refraction of light, total internal reflection and optical fibers, refraction at spherical surfaces, lenses, thin lens formula, lens maker's formula, magnification, power of a lens, combination of thin lenses in contact, refraction of light through a prism. Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.

### **Chapter-10: Wave Optics**

Wave optics: Wave front and Huygen's principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygen's principle. Interference, Young's double slit experiment and expression for fringe width (No derivation final expression only), coherent sources and sustained interference of light, diffraction due to a single slit, width of central maxima (qualitative treatment only)

## **Unit VII: Dual Nature of Radiation and Matter**

### **Chapter-11: Dual Nature of Radiation and Matter**

Dual nature of radiation, Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation-particle nature of light. Experimental study of photoelectric effect Matter waves-wave nature of particles, de-Broglie relation.

### **SEPTEMBER**

**Half Yearly Exam: Ch- 1, 2, 3, 4, 5, 6, 7, 8, and 9**

## OCTOBER

### Unit VIII: Atoms and Nuclei

#### **Chapter-12: Atoms**

Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model, Expression for radius of nth possible orbit, velocity and energy of electron in his orbit, hydrogen spectrum (qualitative ideas only).

#### **Chapter-13: Nuclei**

Composition and size of nucleus, nuclear forces, Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion.

### Unit IX: Electronic Devices

#### **Chapter-14: Semiconductor Electronics: Materials, Devices and Simple Circuits**

Energy bands in conductors, semiconductors and insulators (qualitative ideas only), Intrinsic and extrinsic Semiconductor, p and n type, p-n junction Semiconductor diode I-V characteristics in forward and reverse bias, diode as a rectifier.

## NOVEMBER

**Revision of entire syllabus covered**

**Discussion of CBSE-Sample paper**

**Revision of Previous year paper**

## CHEMISTRY

## MARCH & APRIL

### **Unit II: Solutions**

Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, Raoult's law, colligative properties - relative lowering of vapour pressure, elevation of boiling point, depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties, abnormal molecular mass, Van't Hoff factor.

### **Unit XIII: Amines**

Amines: Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary, secondary and tertiary amines. Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.

## MAY

### **Unit III: Electrochemistry**

Redox reactions, EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells, Relation between Gibbs energy change and EMF of a cell, conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis and law of electrolysis (elementary idea), dry cell-electrolytic cells and Galvanic cells, lead accumulator, fuel cells, corrosion.

### **Unit VIII: d and f Block Elements**

General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first row transition metals – metallic character, ionization enthalpy, oxidation states, ionic radii, colour, catalytic property, magnetic properties, interstitial compounds, alloy formation, preparation and properties of  $K_2Cr_2O_7$  and  $KMnO_4$ . Lanthanoids - Electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction and its consequences. Actinoids - Electronic configuration, oxidation states and comparison with lanthanoids.

## JULY

### **Unit IX: Coordination Compounds**

Coordination compounds - Introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds. Bonding, Werner's theory, VBT, and CFT; structure and stereoisomerism, the importance of coordination compounds (in qualitative analysis, extraction of metals and biological system).

### **Unit IV: Chemical Kinetics**

Rate of a reaction (Average and instantaneous), factors affecting rate of reaction: concentration, temperature, catalyst; order and molecularity of a reaction, rate law and specific rate constant, integrated rate equations and half-life (only for zero and first order reactions), concept of collision theory (elementary idea, no mathematical treatment), activation energy, Arrhenius equation.

## AUGUST

### **Unit X: Haloalkanes and Haloarenes.**

Haloalkanes: Nomenclature, nature of C–X bond, physical and chemical properties, optical rotation mechanism of substitution reactions. Haloarenes: Nature of C–X bond, substitution reactions (Directive influence of halogen in monosubstituted compounds only). Uses and environmental effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.

### **Unit XI: Alcohols, Phenols and Ethers**

Alcohols: Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only), identification of primary, secondary and tertiary alcohols, mechanism of dehydration, uses with special reference to methanol and ethanol. Phenols: Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophilic substitution reactions, uses of phenols. Ethers: Nomenclature, methods of preparation, physical and chemical properties, uses.

## SEPTEMBER

**Revision**

## OCTOBER

### **Unit XII: Aldehydes, Ketones and Carboxylic Acids**

Aldehydes and Ketones: Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties, mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes, uses. Carboxylic Acids: Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.

### **Unit XIV: Biomolecules**

Carbohydrates - Classification (aldoses and ketoses), monosaccharides (glucose and fructose), D-L configuration oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen); Importance of carbohydrates. Proteins -Elementary idea of - amino acids, peptide bond, polypeptides, proteins, structure of proteins - primary, secondary, tertiary structure and quaternary structures (qualitative idea only), denaturation of proteins; enzymes. Hormones - Elementary idea excluding structure. Vitamins - Classification and functions. Nucleic Acids: DNA and RNA.

## NOVEMBER

**Revision of entire syllabus covered**

**Discussion of CBSE-Sample paper**

# **ACCOUNTANCY**

## **MARCH**

### **Unit 1: Accounting for Partnership Firms**

#### **Chapter 1: Fundamentals of Partnership**

Provisions of the Indian Partnership Act 1932 in the absence of partnership deed. Fixed v/s fluctuating capital accounts. Preparation of Profit and Loss Appropriation account- division of profit among partners, guarantee of profits. Past adjustments.

## **APRIL**

#### **Chapter 2: Goodwill (Nature & Valuation)**

Goodwill: nature, factors affecting and methods of valuation - average profit, super profit and capitalization.

#### **Chapter 3: Change in the Profit Sharing Ratio**

Change in the Profit Sharing Ratio among the existing partners - sacrificing ratio, gaining ratio, accounting for revaluation of assets and reassessment of liabilities and treatment of reserves and accumulated profits. Preparation of Revaluation account and Balance Sheet.

#### **Chapter 4: Admission of a partner**

Effect of admission of a partner on change in the profit sharing ratio, treatment of goodwill, treatment for revaluation of assets and re- assessment of liabilities, treatment of reserves and accumulated profits, adjustment of capital accounts and preparation of balance sheet.

## **MAY**

#### **Chapter 5: Retirement of a partner**

Effect of retirement / death of a partner on change in profit sharing ratio, treatment of goodwill, treatment for revaluation of assets and reassessment of liabilities, adjustment of accumulated profits and reserves, adjustment of capital accounts and preparation of balance sheet. Preparation of loan account of the retiring partner.

#### **Chapter 6: Death of a partner**

Calculation of deceased partner's share of profit till the date of death. Preparation of deceased partner's capital account and his executor's account.

## **JULY**

#### **Chapter 7: Dissolution of a partnership firm**

Meaning of dissolution of partnership and partnership firm, types of dissolution of a firm. Settlement of accounts - preparation of realization account, and other related accounts: capital accounts of partners and cash/bank a/c (excluding piecemeal distribution, sale to a company and insolvency of partner(s)).

## **Unit 2. Accounting for Companies**

### **Chapter 1: Accounting for Share Capital**

Share and share capital: nature and types.

Accounting for share capital: issue and allotment of equity and preferences shares. Public subscription of shares - over subscription and under subscription of shares; issue at par and at premium, calls in advance and arrears (excluding interest), issue of shares for consideration other than cash. Concept of Private Placement and Employee Stock Option Plan (ESOP). Accounting treatment of forfeiture and re-issue of shares. Disclosure of share capital in the Balance Sheet of a company.

## **AUGUST**

### **Chapter 2: Accounting for Debentures – Issue of Debentures**

Debentures: Issue of debentures at par, at a premium and at a discount. Issue of debentures for consideration other than cash; Issue of debentures with terms of redemption; debentures as collateral security-concept, interest on debentures. Writing off discount / loss on issue of debentures.

## **Part B: Financial Statement Analysis Unit 3: Analysis of Financial Statements**

### **Chapter 1: Financial statements of a Company:**

Statement of Profit and Loss and Balance Sheet in prescribed form with major headings and sub headings (as per Schedule III to the Companies Act, 2013)

### **Chapter 2: Financial Statement Analysis**

Objectives, importance and limitations.

### **Chapter 3: Comparative & Commonsize financial statements**

Comparative Balance Sheet

Comparative statement of Profit & Loss

Commonsize Balance Sheet

Commonsize statement of Profit & Loss

## **SEPTEMBER**

### **REVISION**

## **OCTOBER**

## **Part B: Financial Statement Analysis**

### **Unit 3: Analysis of Financial Statements**

#### **Chapter 4: Accounting Ratios**

Meaning, Objectives, classification and computation.

**Liquidity Ratios:** Current ratio and Quick ratio.

**Solvency Ratios:** Debt to Equity Ratio, Total Asset to Debt Ratio,

Proprietary Ratio and Interest Coverage Ratio.

**Activity Ratios:** Inventory Turnover Ratio, Trade Receivables Turnover Ratio, Trade

Payables Turnover Ratio and Working Capital Turnover Ratio.

**Profitability Ratios:** Gross Profit Ratio, Operating Ratio, Operating Profit Ratio, Net Profit Ratio and Return on Investment.

#### **Unit 4: Chapter 5: Cash Flow Statement**

Meaning, objectives and preparation (as per AS 3 (Revised) (Indirect Method only)

## **NOVEMBER**

Revision of entire syllabus covered  
Discussion of CBSE-Sample paper

## **BUSINESS STUDIES**

### **MARCH**

#### **Part A: Principles and Functions of Management**

##### **Unit 1: Nature and Significance of Management**

Management - concept, objectives, and importance, Management as Science, Art and Profession, Levels of Management, Management functions-planning, organizing, staffing, directing and controlling, Coordination- concept and importance.

### **APRIL**

#### **Part A: Principles and Functions of Management**

##### **Unit 1: Nature and Significance of Management: To be continued**

##### **Unit 2: Principles of Management**

Principles of Management- concept and significance, Fayol's principles of management Taylor's Scientific management- principles and techniques.

##### **Unit 3: Business Environment**

Business Environment- concept and importance  
Dimensions of Business Environment- Economic, Social, Technological, Political and Legal Demonetization - concept and features  
Impact of Government policy changes on business with special reference to liberalization, privatization and globalization in India

### **MAY**

##### **Unit 4: Planning**

Concept, importance and limitations, Planning process, Single use and standing plans. Objectives, Strategy, Policy, Procedure, Method, Rule, Budget and Programme

##### **Unit 5: Organising**

Concept and importance, Organising Process, Structure of organization - functional and divisional concept. Formal and informal organization – concept, Delegation: concept, elements and importance Decentralization: concept and importance

### **JULY**

##### **Unit 6: Staffing**

Concept and importance of staffing, Staffing as a part of Human Resource Management – concept Staffing process, Recruitment process, Selection – process, Training and Development - Concept and importance, Methods of training - on the job and off the job - vestibule training, apprenticeship training and internship training.

**Unit 7: Directing**

Concept and importance, Elements of Directing, Motivation - concept, Maslow's hierarchy of needs, Financial and non-financial incentives, Leadership - concept, styles - authoritative, democratic and laissez faire, Communication - concept, formal and informal communication; barriers to effective communication, how to overcome the barriers

**AUGUST****Unit 8: Controlling**

Controlling - Concept and importance  
Relationship between planning and controlling  
Steps in process of controlling

**Unit 11: Marketing**

Marketing – Concept, functions and philosophies  
Marketing Mix – Concept and elements  
Product - branding, labelling and packaging –  
Concept  
Price - Concept, Factors determining price  
Physical Distribution – concept, components and channels of distribution  
Promotion – Concept and elements; Advertising, Personal Selling, Sales Promotion and Public Relations

**Unit 12: Consumer Protection**

Concept and importance of consumer protection  
The Consumer Protection Act, 2019:  
Meaning of consumer, Rights and responsibilities of consumers  
Who can file a complaint?  
Redressal machinery, Remedies available, Consumer awareness - Role of consumer organizations and Non-Governmental Organizations (NGOs)

**SEPTEMBER**

**Revision**

**OCTOBER****Part B: Business Finance and Marketing****Unit 9: Financial Management**

Concept, role and objectives of Financial Management  
Financial decisions: investment, financing and dividend- Meaning and factors affecting them  
Financial Planning - concept and importance  
Capital Structure – concept and factors affecting capital structure  
Fixed and Working Capital - concept and factors affecting their requirements

**Unit 10: Financial Markets**

Financial Markets: Concept, Functions and Types  
Money market and its instruments  
Capital market and its types (primary and secondary), methods of floatation in the primary market  
Stock Exchange - Functions and trading procedure  
Securities and Exchange Board of India (SEBI) - objectives and functions

**NOVEMBER**

**Revision of entire syllabus covered**  
**Discussion of CBSE-Sample paper**  
**Revision of Previous year paper**

# **ECONOMICS**

## **MARCH**

### **Part A: Introductory Macroeconomics**

#### **Money**

M1 measurement of money  
Different forms of money  
Functions of money

#### **Some Basic Concepts of Macroeconomics**

What is Macroeconomics?  
Basic concepts in macroeconomics: consumption goods, capital goods, final goods, intermediate goods; stocks and flows; gross investment and depreciation.  
Circular flow of income (two sector model)

## **APRIL**

### **Part A: Introductory Macroeconomics**

#### **Banking**

Credit/ Money creation by the commercial banking system.  
Central bank and its functions (example of the Reserve Bank of India): Bank of issue, Govt. Bank, Banker's Bank, Control of Credit  
Measures to Control Credit

#### **Government Budget**

Meaning, objectives and components.  
Classification of receipts - revenue receipts and capital receipts; classification of expenditure – revenue expenditure and capital expenditure.  
Measures of government deficit - revenue deficit, fiscal deficit, primary deficit their meaning.

#### **Introduction to Macro Economics**

Micro and Macro Economics  
Scope and Significance of Macro Economics

## **MAY**

### **Part B: Indian Economic Development**

#### **Indian Economy on the eve of Independence**

-Agriculture, Industry, Trade, Infrastructure

### **Part B: Indian Economic Development**

Five Years Plan  
Market /Socialist/ Mixed Economy  
Goals of Five Years Plan

## JULY

### Part B: Indian Economic Development

**Features, Problem and Policies of Agriculture**  
Reforms in Indian Agriculture, Green Revolution

**Strategy of Industrial growth**  
Policies – IPR/SSI

**India's Foreign Trade**  
Foreign Trade after Independence-Volume, Value and direction of trade  
Inward looking Trade strategy

**Economic Reforms since 1991**  
Features and appraisals of liberalisation, globalisation and privatisation (LPG policy);  
Concepts of demonetization and GST

## AUGUST

### Part A: Introductory Macroeconomics

**Aggregate Demand, Aggregate Supply**  
Aggregate demand and its components.  
Propensity to consume and propensity to save (average and marginal).

### Part A: Introductory Macroeconomics

**Short run equilibrium**  
Short-run equilibrium output; investment multiplier and its mechanism.  
Meaning of full employment and involuntary unemployment

**Numericals** related to Aggregate demand and Supply,  
Investment Multiplier

## SEPTEMBER

### Part A: Introductory Macroeconomics

**Problem of Deficit and Excess Demand**  
Excess Demand –Causes and Consequences  
Excess Supply- Causes and consequences  
Measures to correct Inflationary and deflationary Gap

**Balance of Payments**  
Balance of payments account - meaning and components

**Human Capital Formation**  
How people become resource; Role of human capital in economic development  
Education sector in India

**Revision**

## **OCTOBER**

### **Part A: Introductory Macroeconomics**

#### **Foreign Exchange rate**

Meaning of fixed and flexible rates and managed floating. Equilibrium exchange rate, sources of demand and supply of foreign currency

#### **National Income**

Gross National Product (GNP), Net National Product (NNP), Gross Domestic Product (GDP) and Net Domestic Product (NDP) - at market price, at factor cost; Real and Nominal GDP. GDP and Welfare

#### **Methods of national Income**

Value added method, Expenditure method, Income method

### **Part B: Indian Economic Development**

#### **Rural development**

Rural Credit and sources of credit, Agriculture marketing - role of cooperatives; agricultural diversification, organic farming.

#### **Employment**

Growth and changes in work force participation rate in formal and informal sectors; problems and policies

#### **Sustainable Economic Development**

Meaning, Effects of Economic Development on Resources and Environment, including global warming

#### **Development Experience of India**

A comparison with neighbours

India and Pakistan

India and China

Issues: economic growth, population, sectoral development and other Human Development Indicators

## **NOVEMBER**

**Revision of entire syllabus covered**

**Discussion of CBSE-Sample paper**

## **PSYCHOLOGY**

### **MARCH & APRIL**

#### **CHAPTER 1: Variations in Psychological Attributes**

Introduction. Individual Differences in Human Functioning. Assessment of Psychological Attributes. Intelligence. Psychometric Theories of Intelligence, Information Processing Theory: Planning, Attention-arousal and Simultaneous successive Model of Intelligence, Triarchic Theory of Intelligence; Theory of Multiple Intelligences. Individual differences in Intelligence. Culture and Intelligence. Emotional Intelligence. Special Abilities: Aptitude- Nature and Measurement. Creativity  
PRACTICAL ON INTELLIGENCE

## **CHAPTER 2: Self and Personality**

Introduction, Self and Personality. Concept of Self. Cognitive and Behavioural aspects of Self. Culture and Self.

**MAY**

## **CHAPTER 2: Self and Personality (contd)**

Concept of Personality. Major Approaches to the Study of Personality: Type Approaches, Trait Approaches, Psychodynamic Approach and Post Freudian Approaches, Behavioural Approach, Cultural Approach, & Humanistic Approach. Assessment of Personality: Self-report Measures, Projective Techniques, & Behavioural Analysis.

PRACTICAL ON SELF-CONCEPT

**JULY**

## **CHAPTER 3: Meeting Life Challenges**

Introduction. Nature, Types and Sources of Stress. Effects of Stress on Psychological Functioning and Health. Stress and Health. General Adaptation Syndrome. Stress and Immune System. Lifestyle. Coping with Stress. Stress Management Techniques. Promoting Positive Health and Well-being, Life Skills, & Positive Health.

PRACTICAL ON PERSONALITY

## **CHAPTER 4: Psychological Disorders**

Introduction. Concepts of Abnormality and Psychological Disorders, Historical Background. Classification of Psychological Disorders. Factors Underlying Abnormal Behaviour. Major Psychological Disorders: Anxiety Disorders, Obsessive-Compulsive and Related Disorders, Trauma- and Stressor-Related Disorders, Somatic Symptom and Related Disorders.

PRACTICAL ON ANXIETY.

**AUGUST**

## **CHAPTER 4: Psychological Disorders (contd)**

Dissociative Disorders, Depressive Disorder, Bipolar and Related Disorders, Schizophrenia Spectrum and Other Psychotic Disorders, Neurodevelopmental Disorders, Disruptive, Impulse-Control and Conduct Disorders, Feeding and Eating Disorders, & Substance Related and Addictive Disorder.

## **CHAPTER 5: Therapeutic Approaches**

Introduction. Nature and Process of psychotherapy: Therapeutic relationship. Types of Therapies: Behaviour Therapy, Cognitive Therapy, Humanistic-Existential Therapy, & Alternative Therapies. Factors contributing to healing in Psychotherapy. Ethics in Psychotherapy. Rehabilitation of the Mentally Ill

PRACTICAL ON NUMERICAL ABILITY

**Revision**

**SEPTEMBER**

**OCTOBER**

## **CHAPTER 6: Attitude and Social Cognition**

Introduction. Explaining Social Behaviour, Nature and Components of Attitudes: Attitude Formation and Change: Attitude Formation, Attitude Change, & Attitude-Behaviour Relationship. Prejudice and Discrimination. Strategies for Handling Prejudice.

## **CHAPTER 7: Social Influence and Group Processes**

Introduction. Nature and Formation of Groups. Type of Groups. Influence of Group on Individual Behaviour  
Social Loafing & Group Polarisation.

### **NOVEMBER**

**Revision of entire syllabus covered**  
**Discussion of CBSE-Sample paper**  
**Revision of Previous year paper**

## **POLITICAL SCIENCE**

### **MARCH**

#### **The End of Bipolarity**

Sub-Topic: Disintegration of Soviet union, Unipolar World, Middle east crisis, Arab spring.

### **APRIL**

#### **New Centres of Power**

Sub-Topic: Organizations: European Union, ASEAN, SAARC, BRICS. Nations: Russia, China, Israel, India, Japan and South Korea.

#### **Contemporary South Asia**

Sub-Topic: Democratisation in Pakistan, Nepal, Sri Lanka, Bangladesh and Maldives.

### **MAY**

#### **United Nations and its Organizations**

Sub-Topic: Principle organs: UNESCO, UNICEF, WHO, ILO, SC and need of its expansion.

### **JULY**

#### **Security in Contemporary World**

Sub-Topics: Security: Meaning and Types; Terrorism.

#### **Environment and Natural Resources**

Sub-Topic: Environment movement, Global Warming and Climate Change, Conservation of Natural Resources.

#### **Globalization**

Sub-Topic: Meaning, Manifestation and Debates.

### **AUGUST**

#### **Part–B**

#### **Challenges of Nation-Building**

Sub-Topic: Nehru's approach to nation-building; Legacy of partition: challenge of 'refugee' resettlement, the Kashmir problem. Organization and reorganisation of states; Political conflicts over language.

#### **Planned Development**

Sub-Topic: Five-year plans, National Development Council, NITI Ayog.

#### **India's Foreign Policy**

Sub-Topic: India's relation with US, Russia, Israel, China and neighboring countries.

### **SEPTEMBER**

#### **REVISION**

### **OCTOBER**

#### **Parties and Party System in India**

Sub-Topic: One Party Dominance, Bi- Party System, Multi party system.

## **Democratic Resurgence**

Sub-Topic: Total Revolution, Socialism, National Emergency.

## **Regional Aspirations**

Sub-Topic: Rise of regional parties. Punjab crisis. The Kashmir Issue, Movements for Autonomy.

## **Indian Politics: Recent Trends and Developments**

Sub-Topic: Era of Coalitions, National Front, United Front

NDA (1998-2004)

UPA (2004-2014)

NDS (2014 onwards)

## **NOVEMBER**

**Revision of entire syllabus covered**

**Discussion of CBSE-Sample paper**

# **ARTIFICIAL INTELLIGENCE**

## **APRIL**

### **Part-B(Subject Specific skills)**

#### **Unit 1: Python Programming – Ii**

Recap of NumPy library, Recap of Pandas Library, Importing and Exporting Data between CSV Files and DataFrames, Handling missing value, Linear Regression

## **MAY**

### **Part-B(Subject Specific skills)**

#### **Unit 1: Python Programming – Ii (Cont.)**

#### **Unit 2: Data Science Methodology: An Analytic Approach To Capstone Project**

Introduction to Data Science Methodology, Steps for Data Science Methodology, Model Validation Techniques, Model PerformanceEvaluation Metrics

### **Part A(EmployabilitySkills)**

#### **Unit-1 Communication Skills-IV**

Active Listening, Parts of Speech, Writing Sentences

#### **Unit-2 Self-management skills--IV**

## **JULY**

### **UNIT 3: MAKING MACHINES SEE**

How Machines See, Working of Computer Vision, Computer Vision Process, Applications of Computer Vision, Challenges of Computer Vision, The Future of Computer Vision

### **UNIT 4: AI WITH ORANGE DATA MINING TOOL**

What is Data Mining?, Introduction to Orange Data Mining Tool, Beneficiaries of Orange data mining, Getting started with Orange tool, Components of Orange, Default Widget Catalogue, Key domains of AI with ORANGE DATA MINING TOOL

### **Part A(EmployabilitySkills)**

#### **Unit 3: ICT Skills-IV**

## AUGUST

### Part A(EmployabilitySkills)

#### Unit-4 Entrepreneurial Skills-IV

Entrepreneurship and Entrepreneur, Barriers to Entrepreneurship, Entrepreneurial Attitudes, Entrepreneurial Competencies

#### Unit-5 Green Skills-IV (December)

Green Jobs, Importance of Green Jobs

#### Unit 5: Introduction To Big Data And Data Analytics

Introduction to Big Data, Types of Big Data, Advantages and Disadvantages of Big Data , Characteristics of Big Data, Big Data Analytics, Working on Big Data Analytics, Mining Data Streams, Future of Big Data Analytics

## SEPTEMBER

### Part-B(Subject Specific skills)

#### Unit 6: Understanding Neural Networks

Parts of a Neural Network, Components of a Neural Network, Working of a Neural Network, Types of Neural Networks, Future of Neural Networks and Societal Impact

## OCTOBER

### Part-B(Subject Specific skills)

#### Unit 7: Generative AI

Introduction to Generative AI , Working of Generative AI, Generative and Discriminative models, Applications of Generative AI, LLM- Large Language Model, Future of Generative AI, Ethical and Social Implications of Generative AI

#### Unit 8: Data Storytelling

Introduction to Storytelling, Elements of a Story, Introduction to Data Storytelling, Why is Data Storytelling Powerful?, Essential Elements of Data Storytelling, Narrative Structure of a Data Story (Freytag's Pyramid), Types of Data and Visualizations for Different Data, Steps to Create a Story Through Data, Ethics in Data Storytelling

## NOVEMBER

**Revision of entire syllabus covered**

**Discussion of CBSE-Sample paper**

## PHYSICAL EDUCATION

### APRIL

#### **Unit II Children & Women in Sports**

- Common Postural Deformities - Knock Knee; Bow Legs; Flat Foot; Round Shoulders; Lordosis, Kyphosis, and Scoliosis and their corrective measures
- Exercise guidelines of WHO for different age groups
- Women's participation in sports
- Special consideration (Menarche & Menstrual Dysfunction)
- Female Athletes Triad (Osteoporosis, Amenorrhea, Eating Disorders)

### **Unit III Yoga as Preventive measure for Lifestyle Disease**

- Obesity: Procedure, Benefits & Contraindications for Tadasana, Katichakrasana, Pavanmuktasana, Matsayasana, Halasana, Pachimottansana, Ardha – Matsyendrasana, Dhanurasana, Ushtrasana, Suryabedhan pranayama.
- Diabetes: Procedure, Benefits & Contraindications for Katichakrasana, Pavanmuktasana Bhujangasana, Shalabhasana, Dhanurasana, Supta-vajarasana, Paschimottanasana, Ardha- Mastendrasana, Mandukasana, Gomukasana, Yogmudra, Ushtrasana, Kapalabhati.
- Asthma: Procedure, Benefits & Contraindications for Tadasana, Urdhwahastottansana, UttanMandukasana, Bhujangasana, Dhanurasana, Ushtrasana, Vakrasana, Kapalbhati, Gomukhasana Matsyaasana, Anuloma- Viloma.
- Hypertension: Procedure, Benefits & Contraindications for Tadasana, Katichakransan, Uttanpadasana, Ardha Halasana, Sarala Matyasana, Gomukhasana, UttanMandukasana, Vakrasana, Bhujangasana, Makarasana, Shavasana, Nadishodhanapranayam, Sitlipranayam.
- Back Pain and Arthritis: Procedure, benefits & contraindication of Tadasan, Urdhawahastootansana, Ardh chakrasana, Ushtrasana, Vakrasana, Sarala Maysyendrsana, Bhujangasana, Gomukhasana, Bhadrasana, Makarasana

### **MAY**

### **Unit I Management of Sporting Events**

- Functions of Sports Events Management (Planning, Organising, Staffing, Directing & Controlling)
- Various Committees & their Responsibilities (pre; during & post)
- Fixtures and its Procedures – Knock-Out (Bye & Seeding) & League (Staircase & Cyclic)
- Intramural & Extramural tournaments
- Community sports program

### **Unit IV Physical Education & Sports for CWSN (Children with Special Needs - Divyang)**

- Organizations promoting Disability Sports (Special Olympics; Paralympics; Deaflympics)
- Concept of classification and divisioning in sports.
- Concept of inclusion in sports, its need and implementation.
- Advantages of Physical Activities for children with special needs.
- Strategies to make Physical Activities assessable for children with special needs.

### **JULY**

### **Unit V Sports & Nutrition**

- Concept of balance diet and nutrition
- Macro and Micro Nutrients: Food sources & functions
- Nutritive & Non-Nutritive Components of Diet
- Eating for weight control

### **Importance of diet in sports**

### **Unit VI Test & Measurement in Sport**

- Fitness Test – SAI Khelo India Fitness Test in school:  
Age group 5-8 yrs/ class 1-3: BMI, Flamingo Balance Test, Plate Tapping Test  
Age group 9-18yrs/ class 4-12: BMI, 50mt Speed test, 600mt Run/Walk, Sit & Reach flexibility test, Strength Test (Abdominal Partial Curl Up, Push-Ups for boys, Modified Push-Ups for girls).  
Computing Basal Metabolic Rate (BMR)
- Measurement of CardioVascular fitness
- Rikli & Jones - Senior Citizen Fitness Test
  - I. Chair Stand Test for lower body strength
  - II. Arm Curl Test for upper body strength
  - III. Chair Sit & Reach Test for lower body flexibility
  - IV. Back Scratch Test for upper body flexibility
  - V. Eight Foot Up & Go Test for agility

## VI. Six Minute Walk Test for Aerobic Endurance

- Johnsen-Methney test of Motor Educability.

## AUGUST

### **Unit VII Physiology & Injuries in Sports**

- factors determining components of physical fitness
- Effect of exercise on Muscular System
- Effect of exercise on Cardio-Respiratory System
- Physiological changes due to aging
- Sports injuries: Classification (Soft Tissue Injuries -Abrasion, Contusion, Laceration, Incision, Sprain & Strain; Bone & Joint Injuries - Dislocation, Fractures - Green Stick, Comminuted, Transverse Oblique & Impact)

### **Unit VIII Biomechanics & Sports**

- Newton's Law of Motion & its application in sports
- Types of levers and their application in sports
- Equilibrium – Dynamic & Static and Centre of Gravity and its application in sports
- Friction & Sports
- Projectile in Sports

## SEPTEMBER

### **Revision**

## OCTOBER

### **Unit IX Psychology & Sports**

- Personality; its definition & types (Jung Classification & Big Five Theory)
- Motivation, its types and techniques
- Exercise Adherence: Reason, benefits & Strategies for enhancing it.
- Meaning, Concept & Types of Aggressions in Sports
- Psychological Attributes in Sports – Self Esteem, Mental Imagery, Self Talk, Goal Setting

### **Unit X Training in Sports**

Concept of Talent Identification and Talent Development in Sports  
Introduction to Sports Training Cycle – Micro, Meso, Macro Cycle.  
Types & Method to Develop – Strength, Endurance and Speed  
Types & Method to Develop – Flexibility and Coordinative Ability  
Circuit Training –Introduction & its Importance

## NOVEMBER

**Revision of entire syllabus covered**  
**Discussion of CBSE-Sample paper**

## **MUSIC**

### **APRIL**

- Definition : Alankar, Gram.
- Write the introduction and notation of Roopak Taal with Ekgun, Dugun, Tigun and Chaugun.
- One Razakhani Gat in Raag Bhairav with elaborations, toras and Jhala.

### **MAY**

- Definition : Murchhana, Alaap.
- One Maseetkhani Gat in Raag Bageshree with elaborations, toras.
- Time Theory of Raagas
- Write the introduction and notation of Jhap Taal with Ekgun, Dugun, Tigun and Chaugun.
- Life Sketch and contribution towards music by Ustad Enayat Khan.

### **JULY**

- Definitions : Taan, Gamak, Kan .
- One Razakhani Gat in Raag Bageshree with elaborations, toras and Jhala.
- Detailed study of Sangeet Ratnakar.
- Life Sketch and contribution towards music by Ustad Mushtaq Ali Khan.

### **AUGUST**

- Definitions : Meend, Sut, Ghaseet.
- Detailed Study of Sangeet Parijat.
- One Razakhani Gat in Raag Malkauns with elaborations, toras and Jhala.
- Recognize the swaras of prescribed raagas.

### **SEPTEMBER**

#### **Revision**

### **OCTOBER**

- Definitions : Krintan, Zamzama.
- One composition in Ektaal or in Jhap taal in any one of prescribed raga.
- Life Sketch and contribution towards music by Ustad Allaudin Khan.
- Tuning of Instrument opted for.
- Hand beats of Roopak taal and Jhap taal with Ekgun and dugun.

### **NOVEMBER**

**Revision of entire syllabus covered  
Discussion of CBSE-Sample paper**

## **DANCE**

### **APRIL**

**Taal:-**Dhamaar, Rupak, Jhap

**Definition:-** Tali, Khali, Sam, Tihaayii

**Gharana:-** Jaipur, lukhnow

### **MAY**

**Taal:-** Dadra, Jhap

Practical Tatkaar Dhamaar taal

Dances: Bharatnatyam & Kuchipudi

### **JULY**

**Definition:-** Vandana, Tihaayii, gatnikas, Gatbahv, Angahara, Bhramari, Sangeet, Taal, laya

### **AUGUST**

**Definition:-** Uptlavana, lokadharmi, NatyaDharmi, Rasa and Bhava

**Practical** That, Amad salami, Toda, paran, Tihayii in Dhamaar Taal

**Dances:** Katakali, Odissi, Manipuri

### **SEPTEMBER**

#### **Revision**

### **OCTOBER**

Basic understanding of the term”Abhinay” and definition of it’s four aspects.

Acquaintance with the traditional costumes and makeup. Revision

of all Taals. Ability to Notate a Paran /Tukraa/Tora.

### **NOVEMBER**

Practical work practice and revision of a Taals.

Rasa definition and explanation of nine rasa

Definition: Lok Dharmi, Natya Dharmi, Rasa and Bhava

### **DECEMBER**

**Revision of entire syllabus covered**

**Discussion of CBSE-Sample paper**

### **JANUARY**

**Revision of Previous year paper**

## **PAINTING**

### **APRIL**

**THEORY:** (i) THE BENGAL SCHOOL OF PAINTING  
(ii) FUNDAMENTALS OF VISUAL ART  
(iii)SIX LIMBS OF INDIAN PAINTING

**PRACTICAL:** (i) ABSTRACT ART  
(ii) STILL LIFE

## MAY

**THEORY:** (i) THE MODERN TRENDS IN INDIAN ART: PAINTINGS  
(ii) HISTORY OF INDIAN PAINTING  
(iii) MINIATURE PAINTING

**PRACTICAL:** (i) LANDSCAPE  
(ii) STILL LIFE

## JULY

**THEORY:** (i) THE MODERN TRENDS IN INDIAN ART: GRAPHIC-PRINTS  
(ii) RAJASTHANI SCHOOL OF PAINTING  
(iii) THE PAHARI SCHOOL

**PRACTICAL:** (i) LANDSCAPE  
(ii) STILL LIFE

## AUGUST

**THEORY:** (i) THE MODERN TRENDS IN INDIAN ART: SCULPTURES  
(ii) THE MUGHAL SCHOOL OF ART  
(iii) THE DECCAN SCHOOL OF ART

**PRACTICAL:** (i) LANDSCAPE  
(ii) STILL LIFE

## SEPTEMBER

**THEORY:** (i) THE MODERN TRENDS IN INDIAN ART:  
GRAPHIC-PRINTS AND SCULPTURES

**PRACTICAL:** (ii) REVISION OF COVERED SYLLABUS  
(i) ABSTRACT PAINTING

## OCTOBER

**THEORY:** (i) REVISION ( FULL SYLLABUS: UNIT-1,2,AND 3))

**PRACTICAL:** (i) LANDSCAPE  
(ii) FOLK ART PAINTING

## NOVEMBER

REVISION ( FULL SYLLABUS: UNIT-1,2,AND 3)

**NOTE: THE STUDENTS NEED TO REFER TO UNIT-4 AND UNIT-5**

# **ENTREPRENEURSHIP**

## **APRIL**

### **UNIT 1: ENTREPRENEURIAL OPPORTUNITIES**

Sensing Entrepreneurial Opportunities, Environment Scanning, Problem Identification, Spotting Trends, Creativity and Innovation, Business Plan

## **MAY**

### **UNIT-II: ENTREPRENEURIAL PLANNING**

Organisational Plan, Operational and Production Plan, Financial Plan, Marketing Plan, Human Resource Planning, Creating the Plan.

### **UNIT - III: ENTERPRISE MARKETING**

Marketing and Sales Strategy.

## **JULY**

### **UNIT - III: ENTERPRISE MARKETING (Cont.)**

### **UNIT IV: ENTERPRISE GROWTH STRATEGIES**

Merger and Acquisition, Franchising

## **AUGUST**

### **UNIT-V: BUSINESS ARITHMETIC**

Unit Sale, Unit Cost, Unit Price, Breakeven Analysis, Computation of Working Capital, Inventory-Control and EOQ, ROI (Return on Investment)/ROE (Return of Equity).

## **SEPTEMBER**

### **REVISION**

## **OCTOBER**

### **UNIT-VI: RESOURCE MOBILISATION**

Angel Investor, Venture Capital Funds, Stock Market: Funds

## **DECEMBER**

**Revision of entire syllabus covered.**

## **JANUARY**

**Discussion of CBSE-Sample paper.**

**Revision of Previous year paper**

# **FINANCIAL MARKETS MANAGEMENT**

## **APRIL**

### **Subject Specific Skills**

Unit 1: Introduction to Indian Securities Market and Trading Membership

### **Employability Skills**

Unit 1 : Communication Skills-IV

## **MAY**

Unit 2: Trading

### **Employability Skills**

Unit 2 : Self-Management Skills-IV

Unit 3: Clearing and Settlement, Legal Framework

### **Employability Skills**

Unit 3 : ICT Skills-IV

## **JUNE-JULY**

Unit 4 : Financial Statement Analysis

### **Employability Skills**

Unit 4 : Entrepreneurial Skills-IV

## **AUGUST**

Unit 5: Introduction to Derivatives

### **Employability Skills**

Unit 5 : Green Skills-IV

## **SEPTEMBER**

**REVISION**

## **OCTOBER**

Unit 6: Future and Option Contracts, Mechanism and Pricing

## **DECEMBER**

**Revision of entire syllabus covered.**

## **JANUARY**

**Discussion of CBSE-Sample paper.**

**Revision of Previous year paper**

## ਪੰਜਾਬੀ

### ਅਪ੍ਰੈਲ

ਵਿਸ਼ਾ-ਪਾਠ ੧-ਭਾਈ ਵੀਰ ਸਿੰਘ  
ਉਪ-ਵਿਸ਼ਾ-ਟੁਕੜੀ ਜੱਗ ਤੋਂ ਨਿਆਰੀ(ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ, ਪ੍ਰਸ਼ਨ-ਉੱਤਰ)  
ਵਿਸ਼ਾ -ਪਾਠ-੧ ਸਾਂਝ  
ਉਪ-ਵਿਸ਼ਾ-ਸਾਰ, ਵਿਸ਼ਾ-ਵਸਤੂ, ਪ੍ਰਸ਼ਨ-ਉੱਤਰ  
ਵਿਆਕਰਣ  
ਵਿਸ਼ਾ-ਵਾਕ-ਵਟਾਂਦਰਾ  
ਵਿਸ਼ਾ-ਪਾਠ-੨ ਤਾਜ ਮਹਿਲ  
ਉਪ-ਵਿਸ਼ਾ-(ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ, ਪ੍ਰਸ਼ਨ-ਉੱਤਰ)  
ਵਿਸ਼ਾ-ਪਾਠ ੨ ਨੀਲੀ  
ਉਪ-ਵਿਸ਼ਾ-ਸਾਰ, ਵਿਸ਼ਾ ਵਸਤੂ, ਪ੍ਰਸ਼ਨ-ਉੱਤਰ

### ਮਈ

ਵਿਸ਼ਾ-ਪਾਠ-੩ ਚੁੰਮ-ਚੁੰਮ ਰੱਖੋ  
ਉਪ-ਵਿਸ਼ਾ-(ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ, ਪ੍ਰਸ਼ਨ-ਉੱਤਰ)  
ਵਿਸ਼ਾ-ਪਾਠ-੩ ਮਾੜਾ ਬੰਦਾ  
ਉਪ-ਵਿਸ਼ਾ-ਸਾਰ, ਵਿਸ਼ਾ ਵਸਤੂ, ਪ੍ਰਸ਼ਨ-ਉੱਤਰ

### ਜੂਨ-ਜੁਲਾਈ

ਵਿਸ਼ਾ-ਪਾਠ-੪ ਵਾਰਸ ਸ਼ਾਹ  
ਉਪ-ਵਿਸ਼ਾ-(ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ, ਪ੍ਰਸ਼ਨ-ਉੱਤਰ)  
ਵਿਸ਼ਾ-ਪਾਠ-੪ ਘਰ ਜਾ ਆਪਣੇ  
ਉਪ-ਵਿਸ਼ਾ-ਸਾਰ, ਵਿਸ਼ਾ ਵਸਤੂ, ਪ੍ਰਸ਼ਨ-ਉੱਤਰ  
ਵਿਆਕਰਣ  
ਵਿਸ਼ਾ-ਪੱਤਰ

### ਅਗਸਤ

ਵਿਸ਼ਾ-ਮੇਰਾ ਬਚਪਨ  
ਉਪ-ਵਿਸ਼ਾ- ਉਹ ਦਿਨ(ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ, ਪ੍ਰਸ਼ਨ-ਉੱਤਰ)  
ਵਿਸ਼ਾ-ਪਾਠ-੫ ਗੀਤ  
ਉਪ-ਵਿਸ਼ਾ-(ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ, ਪ੍ਰਸ਼ਨ-ਉੱਤਰ)  
ਵਿਆਕਰਣ  
ਵਿਸ਼ਾ-ਅਖਾਣ  
ਉਪ ਵਿਸ਼ਾ-ਵਰਤ ਕੇ ਸਥਿਤੀ ਸਪੱਸ਼ਟ ਕਰਨਾ

### ਸਤੰਬਰ

ਛਿਮਾਹੀ-ਪ੍ਰੀਖਿਆ

### ਅਕਤੂਬਰ

ਵਿਸ਼ਾ-ਪਾਠ-੬ ਪੰਜਾਬ ਦੇ ਮੇਲੇ ਤੇ ਤਿਉਹਾਰ  
ਉਪ-ਵਿਸ਼ਾ-ਸਾਰ, ਵਿਸ਼ਾ ਵਸਤੂ, ਪ੍ਰਸ਼ਨ-ਉੱਤਰ  
ਉਪ-ਵਿਸ਼ਾ-ਸਾਰ, ਵਿਸ਼ਾ ਵਸਤੂ, ਪ੍ਰਸ਼ਨ-ਉੱਤਰ  
ਵਿਸ਼ਾ-ਪੰਜਾਬ ਦੇ ਲੋਕ-ਨਾਚ, ਪੰਜਾਬ ਦੇ ਰਸਮ ਰਿਵਾਜ  
ਦੁਹਰਾਈ -ਪਾਠ-ਪੁਸਤਕ ਅਤੇ ਵਿਆਕਰਣ

**HAPPY  
LEARNING !**