ITBP PUBLIC SCHOOL, DWARKA,
CLASS: XII (2024-25)
ANNUAL PLANNER

SUBJECT: ENGLISH

MONTH	CHAPTERS TO BE TAUGHT	PRACTICAL WORK/ ASSIGNMENT/ WORKSHEETS
MARCH	The Last Lesson, My Mother at Sixty-six	Prepare a word bank: Include new words from text and related words, add synonyms and antonyms. (To be updated after every lesson)
APRIL	The Third Level Lost Spring Deep Water Notice writing	Presentations on Child labour/ Relationships
MAY	Keeping Quiet The Tiger King Comprehension exercises	Listening skill exercises Extempore
JULY	The Rattrap Journey to the end of the Earth Application for a job Article Writing	Group discussion: based on messages from the literature Texts.
AUGUST	Indigo The Enemy A Thing of Beauty Formal/Informal Invitation and Reply to invitation Letter to Editor	Spell bee / Vocabulary quiz
SEPTEMBER	Poets and Pancakes Report Writing	Mock interview.
OCTOBER	The Interview A Roadside Stand On the Face of It Revise: Writing Skills	Conduct survey and write a Report
NOVEMBER	Going Places Aunt Jennifer's Tigers Memories of Childhood The Cutting of My Long Hair We Too are Human Beings	Class Debate
DECEMBER	**Revision of Overall Syllabus**	
PORTION FOR PRE BOARD I : (SECOND WEEK OF DECEMBER) Full Syllabus		
JANUARY -2025	**Revision of Overall Syllabus AND C.B.S.E. Practical Exams**	
HOLIDAY HOME WORK (WINTER BREAK) : PRACTICALS/COMPLETION OF PROJECT		
PORTION FOR PRE BOARD II: (SECOND WEEK OF JANUARY-2025) Full Syllabus.		

SUBJECT: MATHS

MONTHS	TOPICS	SUB TOPICS	ASSIGNMENT/ WORKSHEET/ MAPWORK
APRIL	Matrix Determinant	Solve the system of equations a) Algebra of matrix b) Adjacent of matrix c) Determinant of square matrix d) Inverse of matrix	Assignment
JULY	Relation and Function Inverse Trigonometric Function	a) Types of relation b) One to one , onto function c) Reflexive symmetric and transitive d) Domain and Range e) Graphs of inverse functions	Assignment
JULY	Differentiation	Rate change of quantities a) Continuity and differentiation b) Maxima and minima c) Second order derivative	Assignment
AUG	Application of Differentiation	a) Gradient of quantities b) Turning points c) Increasing and decreasing d) Highest value possible	Assignment
SEP	Integrals Application of Integrals	a) Inverse process of differentiation b) Integration by substitution c) Area under curve, ellipse and parabola	Assignment
OCT	Differential Equations Vector Algebra 3D Geometry	a) Order and degree b) Method of variable separation c) Vector and scalar d) Direction cosine, distance between lines in 3D	Assignment
NOV	Linear Programming Probability	a) constraints, objective function, optimization, b) feasible and infeasible solutions c) Conditional probability, multiplication theorem on probability, independent events, Bayes' theorem,	Assignment

SUBJECT: PHYSICS

MONTHS	CHAPTER/UNITS	TOPICS	ASSIGNMENT/ WORKSHEET
APRIL	• ELECTRIC CHARGES AND FIELD • ELECTROSTATIC POTENTIAL AND	• Electric charges, Conservation of charge, Coulomb's law-force between two- point charges, forces between multiple charges; superposition principle and continuous charge distribution.	Assignment

	CAPACITANCE	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). • 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 polarization, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor (no derivation, formulae only).	
MAY	• ELECTRICITY	• Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity, temperature dependence of resistance, Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's rules, Wheatstone bridge.	
JULY	• MOVING CHARGES AND	• Concept of magnetic field, Oersted's experiment. Biot -	Assignment

	MAGNETISM • MAGNETISM AND MATTER	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; Current loop as a • • magnetic dipole and its magnetic dipole • moment, moving coil galvanometer- its current sensitivity and conversion to ammeter and voltmeter. • 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.	
AUG	• ELECTOMAGNETIC INDUCTION • ALTERNATING CURRENT	• Electromagnetic induction; Faraday's laws, induced EMF and current; Lenz's Law, Self and mutual induction. • Alternating currents, peak and RMS value of alternating current/voltage; reactance and impedance; LCR series circuit (phasors only), resonance, power in AC circuits, power factor, wattless current. AC	Assignment

		generator, Transformer.	
SEP	• ELECTROMAGNETIC WAVES • RAYOPTICS AND OPTICAL INSTRUMENTS	• 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. • 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.	Assignment
OCT	• WAVE OPTICS • DUAL NATURE OF RADIATION AND MATTER	• 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). • 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.	Assignment
NOV	• ATOMS AND NUCLEI • SEMICONDUCT	• Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model of hydrogen	Assignment

	OR	atom, Expression for radius of nth possible orbit, velocity and energy of electron in nth orbit, hydrogen line spectra (qualitative treatment only). • Composition and size of nucleus, nuclear force Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion • Energy bands in conductors, semiconductors and insulators (qualitative ideas only) Intrinsic and extrinsic semiconductors- p and n type, p-n junction Semiconductor diode - I-V characteristics in forward and reverse bias, application of junction diode -diode as a rectifier	

SUBJECT: CHEMISTRY

Month	**Chapter**	**Subtopics**
April	Chapter 1: Solutions	- Types of solutions - Concentration of solutions (molarity, molality, normality, mole fraction) - Solubility and factors affecting solubility - Vapour pressure of liquid solutions - Raoult's law - Colligative properties (lowering of vapour pressure, boiling point elevation, freezing point depression, osmotic pressure) - Abnormal molecular masses and Van't Hoff factor
May	Chapter 2: Electrochemistry	- Electrochemical cells - Galvanic and electrolytic cells - Nernst equation and its applications - Conductance of electrolytes (specific, molar, and equivalent conductance) - Kohlrausch's law - Electrolysis and Faraday's laws - Batteries (primary and secondary) - Fuel cells and corrosion
May	Chapter 3: Chemical Kinetics	- Rate of reaction - Factors affecting rate of reaction - Rate law and rate constant - Order and molecularity of a reaction - Integrated rate equations for zero, first, and second order reactions - Arrhenius equation and activation energy - Collision theory
July	Chapter 4: The d- and f-Block Elements	- General properties of transition elements (electronic configuration, oxidation states, magnetic properties)

		- Lanthanides and their properties - Actinides and their properties - Coordination compounds (Werner's theory, nomenclature, isomerism) - Applications of d- and f-block elements
August	Chapter 5: Coordination Compounds	- Werner's theory of coordination compounds - Types of ligands and coordination number - Nomenclature of coordination compounds - Isomerism in coordination compounds (structural and stereoisomerism) - Bonding in coordination compounds (VBT, CFT) - Stability of coordination compounds and their applications
August	Chapter 6: Haloalkanes and Haloarenes	- Classification and nomenclature - Nature of C-X bond - Methods of preparation (from alcohols, hydrocarbons) - Physical properties (boiling point, density, solubility) - Chemical properties (nucleophilic substitution, elimination, reaction with metals) - Environmental impact of polyhalogen compounds (DDT, freons)
October	Chapter 7: Alcohols, Phenols and Ethers	- Classification and nomenclature - Methods of preparation (from alkenes, aldehydes, ketones, carboxylic acids) - Properties (boiling point, solubility) - Reactions (dehydration, oxidation, esterification) - Phenols: Acidity, electrophilic substitution, uses - Ethers: Structure, preparation, properties, and uses
October	Chapter 8: Aldehydes, Ketones and Carboxylic Acids	- Classification and nomenclature - Structure of carbonyl group - Methods of preparation (from alcohols, alkenes, nitriles) - Physical properties (boiling point, solubility) - Chemical properties (nucleophilic addition, oxidation, reduction, aldol condensation) - Uses and applications of aldehydes, ketones, and carboxylic acids
November	Chapter 9: Amines	- Structure and classification - Nomenclature - Methods of preparation (from nitriles, amides, halides) - Physical properties (boiling point, solubility) - Chemical properties (basicity, reactions with acids, alkylation, acylation) - Diazonium salts: Preparation, properties, importance in organic synthesis
November	Chapter 10: Biomolecules	- Carbohydrates: Classification (monosaccharides, disaccharides, polysaccharides) - Proteins: Amino acids, peptide bond, structure - Enzymes: Mechanism of enzyme action - Vitamins: Classification and functions - Nucleic acids: DNA, RNA, structure, biological functions

SUBJECT: BIOLOGY

MONTH	SYLLABUS
APRIL	Unit 1 Chapter-2: Sexual Reproduction in Flowering Plants Chapter-3: Human Reproduction Chapter-4: Reproductive Health

	Experiment -1.Prepare a temporary mount to observe pollen germination.
MAY	Unit 2 Genetics and Evolution Chapter-5: Principles of Inheritance and Variation Chapter-6: Evolution Experiment - Prepare a temporary mount of onion root tip to study mitosis.
JUNE	SUMMER VACATIONS
JULY	Chapter 7: Molecular Basis of Inheritance Experiment - 1. Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc. 2. T.S. of blastula through permanent slides (Mammalian).
AUGUST	Unit -3 Chapter-8: Human Health and Diseases Chapter-10:Microbes and human welfare Experiment - 1. Flowers adapted to pollination by different agencies (wind, insects, birds). 2.Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through
SEPTEMBER	Unit 4- Biotechnology and its Applications Chapter-11: Biotechnology - Principles and Processes Chapter 12 : Biotechnology and it's applications Experiment - Meiosis in onion bud cell or grasshopper testis through permanent slides
OCTOBER	Unit-6 Ecology and Environment Chapter-13: Organisms and Populations Chapter 14 Ecosystem Chapter-15: Biodiversity and its Conservation Experiment – Study of Prepared pedigree charts of different the genetic traits.
NOVEMBER	REVISION
DECEMBER	PRE BOARD I AND PRE BOARD II
JANUARY	PRACTICALS
FEBRUARY	BOARD EXAMS

SUBJECT: COMPUTER SCIENCE

MONTHS	TOPICS	SUB TOPICS	ASSIGNMENTS
APRIL	Computational Thinking and Programming – 2	● Revision of Python topics covered in Class XI.	Assignments of theory and practical
MAY	Database Management	Database concepts: introduction to database concepts and its need ● Relational data model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key) ● Structured Query Language: introduction, Data Definition Language and Data Manipulation Language, data type (char(n), varchar(n), int, float, date), constraints (not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table, alter table (add and remove an attribute, add and remove primary key), drop table, insert, delete, select, operators (mathematical, relational and logical), aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null, like, update command, delete command, aggregate functions (max, min, avg, sum, count), group by, having clause, joins: cartesian product on two tables, equi-join and natural join	Assignments of theory and practical
JULY	Computer Networks	● Evolution of networking: introduction to computer networks, evolution of networking (ARPANET, NSFNET, INTERNET) ● Data communication terminologies: concept of communication, components of data communication	Assignment

		(sender,receiver, message, communication media, protocols), measuring capacity of communication media (bandwidth, data transfer rate), IP address, switching techniques (Circuit switching, Packet switching) ● Transmission media: Wired communication media (Twisted pair cable, Co-axial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves, Infrared waves) ● Network devices (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card) ● Network topologies and Network types: types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree) ● Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP ● Introduction to web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting	
AUGUST	Computational Thinking and Programming – 2	Functions: types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope)	Assignment
SEPTEMBER	Interface of python with an SQL database	connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using connect(), cursor(), execute(), commit(), fetchone(), fetchall(), rowcount, creating database connectivity applications, use of %s format specifier or format() to perform queries	Assignments of theory and practical

OCTOBER	Exception Handling And Introduction to files	Exception Handling: Introduction, handling exceptions using try-except-finally blocks ● Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths ● Text file: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appending data to a text fileusing write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods, manipulation of data in a text file	Assignments of theory and practical
NOVEMBER	Binary and Csv Files creation	● Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file ● CSV file: import csv module, open / close csv file, write into a csv file using writer(),writerow(),writerows() and read from a csv file using reader() ● Data Structure: Stack, operations on stack (push & pop), implementation of stack using list.	Assignments of theory and practical
DECEMBER-JANUARY		Pre-board Exam Board Practical	
FEBRUARY-MARCH	Board Exam		

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SUBJECT: INFORMATICS PRACTICES

MONTHS	TOPICS	SUB TOPICS	ASSIGNMENTS
APRIL	Database Query using SQL	Revision of database concepts and SQL commands covered in class XI Math functions: POWER (), ROUND (), MOD (). Text functions: UCASE ()/ UPPER (), LCASE ()/ LOWER (), MID ()/ SUBSTRING () /SUBSTR (), LENGTH (), LEFT (), RIGHT (), INSTR (), LTRIM (), RTRIM (), TRIM (). Date Functions: NOW (), DATE (), MONTH (), MONTHNAME (), YEAR (), DAY (), DAYNAME ().	Assignment of theory and practical
MAY	Database Query using SQL	Aggregate Functions: MAX (), MIN (), AVG (), SUM (), COUNT (); using COUNT (*). Querying and manipulating data using Group by, Having, Order by. Working with two tables using equi-join	Assignment of theory and practical
JULY	Data Handling using Pandas -I	Introduction to Python libraries- Pandas, Matplotlib. Data structures in Pandas - Series and Data Frames. Series: Creation of Series from – ndarray, dictionary, scalar value; mathematical operations; Head and Tail functions; Selection, Indexing and Slicing. Data Frames: creation - from dictionary of Series, list of dictionaries, Text/CSV files; display; iteration; Operations on rows and columns: add, select, delete, rename; Head and Tail functions; Indexing using Labels, Boolean Indexing	Assignment of theory and practical
AUGUST	Data Visualization	Purpose of plotting; drawing and saving following types of plots using Matplotlib – line plot, bar graph, histogram Customizing plots: adding label, title, and legend in plots.	Assignment of theory and practical
SEPTEMBER	Societal Impacts	Digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR), plagiarism, licensing	Assignment

		and copyright, free and open source software (FOSS), cybercrime and cyber laws, hacking, phishing, cyber bullying, overview of Indian IT Act. E-waste: hazards and management. Awareness about health concerns related to the usage of technology.	
OCTOBER	CSV files and Data Frames.	Importing/Exporting Data between CSV files and Data Frames.	Assignment of theory and practical
NOVEMBER	Introduction to Computer Networks	Introduction to networks, Types of network: PAN, LAN, MAN, WAN. Network Devices: modem, hub, switch, repeater, router, gateway Network Topologies: Star, Bus, Tree, Mesh. Introduction to Internet, URL, W W W, and its applications-Web, email, Chat, VoIP. Website: Introduction, difference between a website and webpage, static vs dynamic web page, web server and hosting of a website. Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies.	Assignment
DECEMBER-JANUARY		Pre-board Exam Board Practical	
FEBRUARY-MARCH	Board Exam		

SUBJECT: HISTORY

MONTHS	TOPICS	SUB TOPICS	ASSIGNMENT/ WORKSHEET/MAP WORK
MARCH	**Part-I** **BRICKS, BEADS AND BONES The Harappan Civilization:**	**Broad overview**: Early urb an centers Story of discovery: Harappan civilization **Excerpt:** Archaeological report on a major site **Discussion:** How it has been utilized by archaeologists/ historians	Assignment Map Work
MARCH	**KINGS, FARMERS AND TOWNS:Early States and Economies (c. 600 BCE-600 CE)**	**Broad overview:** Political and economic History from the Mauryan to the Gupta period Story of discovery: Inscriptions and the Decipherment of the script. Shifts in the Understanding of political and economic history. **Excerpt:** Ashokan inscription and Gupta period land grant	Assignment Map Work

		Discussion: Interpretation of inscriptions by historians.	
APRIL	**KINSHIP, CASTE AND CLASS Early Society Societies (C. 600 BCE-600 CE)**	**Broad overview:** Social Histories: Using the Mahabharata Issues in social history, including caste, class, kinship and gender Story of discovery: Transmission and publications of the Mahabharat **Excerpt:** from the Mahabharata, illustrating how it has been used by historians. **Discussion:** Other sources for reconstructing social history.	Assignment
APRIL	**THINKERS, BELIEFS AND BUILDINGS Cultural Developments (c. 600 BCE - 600 CE)**	**Broad overview:** A History of Buddhism: Sanchi Stupa a) A brief review of religious histories of Vedic religion, Jainism, Vaishnavism, Shaivism (Puranic Hinduism) b) Focus on Buddhism. Story of discovery: Sanchi stupa. **Excerpt:** Reproduction of sculptures from Sanchi. **Discussion:** Ways in which sculpture has been interpreted by historians, other sources for reconstructin	Assignment Map Work
MAY	**Part-II** **THROUGH THE EYES OF TRAVELLERS Perceptions of Society (c. tenth to seventeenth century)**	**Broad Overview:** outlines of social and cultural life as they appear in traveller's account. Story of their writings: A discussion of where they travelled, what they wrote and for whom they wrote. **Excerpts:** from Al Biruni, Ibn Battuta, Francois Bernier. **Discussion:** What these travel accounts can tell us and how they have been interpreted by historians	Assignment
MAY	**BHAKTI –SUFI TRADITIONS: Changes in Religious Beliefs and Devotional Texts (c. eighth to eighteenth centuries)**	**Broad overview:** a. Outline of religious developments during this period saints. b. Ideas and practices of the Bhakti-Sufi Story of Transmission: How Bhakti-Sufi compositions have been preserved. **Excerpt:** Extracts from selected Bhakti-Sufi works. **Discussion:** Ways in which these have been interpreted by	Assignment Map Work

		historians.	
JULY	**AN IMPERIAL CAPITAL: VIJAYANAGARA (c. fourteenth to sixteenth centuries)**	**Broad Over View:** New Architecture: Hampi a. Outline of new buildings during Vijayanagar period-temples, forts, irrigation facilities. b. Relationship between ar chitecture and the political system Story of Discovery: Account of how Hampi was found. **Excerpt:** Visuals of buildings at Hampi **Discussion:** Ways in which historians have analyzed and interpreted these structures.	Assignment Map Work
JULY	**PEASANTS, ZAMINDARS AND THE STATE: Agrarian Society and the Mughal Empire (c. sixteenth-seventeenth centuries)**	**Broad overview:** The Ain i-Akbari a. Structure of agrarian relations in the 16th and 17th centuries. b. Patterns of change over the period. Story of Discovery: Account of the compilation and translation of Ain I Akbari **Excerpt:** from the Ain-i-Akbari. **Discussion:** Ways in which historians have used texts to reconstruct history.	Assignment
AUG	**Part-III** **COLONIALISM AND THE COUNTRYSIDE: Exploring Official Archives**	**Broad overview:** Colonialism and Rural Society: Evidence from Official Reports a) Life of zamindars, peasants and artisans in the late18thcentury b). Permanent Settlement, Santhals and Paharias Story of official records: An account of why official Investigations in to rural societies were undertaken and the types of records and reports produced. **Excerpts:** From Fifth Report **Discussion:** What the offici al records tell and do not tell, and how they have been used by historians	Assignment Map Work
SEP	**REBELS AND THE RAJ: 1857 Revolt and its Representations**	**Broad overview:** a. The eventsof1857-58. b. Vision of Unity c. How these events were recorded and narrated. Focus: Lucknow **Excerpts:** Pictures of 1857. Extracts	Assignment Map Work

		from contemporary accounts. **Discussion:** How the pictures of 1857 shaped British opinion of what had happened.	
SEP	**MAHATMA GANDHI AND THE NATIONALIST MOVEMENT: Civil Disobedience and Beyond**	**Broad overview:** a. The Nationalist Movement 1918 -48. b. The nature of Gandhian politics and leadership. Focus: Mahatma Gandhi and the three movements and his last days as "finest hours" **Excerpts:** Reports from English and Indian language newspapers and other contemporary writings. **Discussion:** How newspapers can be a source of history	Assignment Map Work
OCT	**FRAMING THE CONSTITUTION: The Beginning of a New Era**	**Broad overview:** The Making of the Constitution an overview: a. Independence and then new nation state. b. The making of the Constitution Focus: The Constituent Assembly Debates **Excerpts:** from the debates **Discussion:** What such debates reveal and how they can be analyzed.	Assignment

SUBJECT: ECONOMICS

MONTH	CHAPTER NUMBER	SUB TOPICS	ASSIGNMENTS
April	Chapter 1 Circular Flow of Income (Macroeconomics) Chapter 2 Basic Concepts of Macroeconomics (Macroeconomics) Chapter 3 National Income and Related Aggregates (Macroeconomics) Chapter 1 Indian Economy on the Eve of Independence (Indian Economic Development) Chapter 2 Indian Economy (1950-1990) (Indian Economic Development)	Physical flow and Nominal Flow, firm and household a two sector model Citizenship, normal residents Domestic Income and National Income Stagnation in Indian Economy, agriculture, industry and international trade. IPR 1956, year of great divide	Practice Questions
May	Chapter 4 Measurement of National Income (Macroeconomics) Chapter 3 Liberalisation, Privatisation and Globalisation: An appraisal (Indian Economic Development)	Income method, Expenditure method, value added method, limitation of national income calculation. GST, Demonetization, leberalisatin in Indian Economy, Privatisation and Globalisation	Practice Questions

July	Chapter 5 Money (Macroeconomics) Chapter 6 Banking (Macroeconomics) Chapter 7 Aggregate demand and related concepts (Macroeconomics) Chapter 4 human Capital Formation (Indian Economic Development)	Measure of Money, Functions of Money, Banking, RBI, functions of RBI Aggregate demand, aggregate supply, consumption function, saving function, equilibrium level of income. Components of human capital formation, need, importance.	Practice Questions
August	Chapter 5 Rural Development (Indian Economic Development) Chapter 8 Income Determination and Multiplier (Macroeconomics) Chapter 9 Excess Demand and Deficit Demand (Macroeconomics)	Concepts of Rural Development, credit functioning, importance MPC, MPS, APS, APC, Multiplier Inflationary pressure, deflationary pressure	Practice Questions
September	Chapter 6 Employment: Growth, Informalisation and Other Issues (Indian Economic Development) Chapter 10 Government Budget and The economy (Macroeconomics)	Employment, division of workforce in Indian economy Concepts of budget, components and impact on economy	Practice Questions
October	Chapter 11 Foreign Exchange Rate (Macroeconomics) Chapter 7 Environment and sustainable development (Indian Economic Development) Chapter 8 Comparative development experiences of India and its neighbours (Indian Economic Development)	Exchange rate determination, demand for foreign currency and supply of foreign currency Sustainable development, importance, need. comparison between India, Pakistan and Chaina.	Practice Questions
November	Chapter 12 Balance of Payment (Macroeconomics)	Account of balance of payment, current account, capital account, visible goods and invisible goods	Practice Questions

SUBJECT: POLITICAL SCIENCE

Month	Chapter No	Chapter Name	Activity/ Cartoon And Map Question
April	**Chapter 1**	-The End OfBipolarity	-Make A List Of The Similarities Between India & The USSR In Their Political And Economic Ideologies. -Assign Major Conflict Zones Of The Post- Cold War Period In Which The Us Was Involved.(E.G, Afghanistan, Iraq,Israel-
	Chapter 2	New Centers OfPower	Locate The Asean MembersOn The Map
May	**Chapter 3**	-South Asia AndThe Contemporary World	-Prepare A Fact That Contains Information On The Objectives, Functions And Recent ActivitiesOf These Organizations. -Pictures Of The Conferences/ Summit Meeting Can Be Collected
July	**Chapter 4**	-United NationsAnd Its Organizations	-Discuss Over What You Can DoTo Protect Our Environment - Make A List Of Programs Done By U.N At Covid Time. -Find Out New Threats On Security.
	Chapter 5	-Security In The Contemporary World	

	Chapter 6	-Environmental And Natural Resource	-Learner PrepareA List Of Ten Items They Consume/ Use Every Day. Learner Calculate The Amount Of Natural Resources Being Used To Make These Items.
August	**Chapter 7** **Chapter 1** **Chapter 2**	-Globalization -Challenges OfNation-Building Era of one party dominance	Students Are To List The Name Of Products – Food Products ,White Goods, And Luxuries, They Are Familiar With Learner May Prepare A Write-Up On The Processes Of National Building. Write A Biography On AnyLeader Who Has Inspired You. Prepare A Write-Up On The Schemes And Programs Cartoon and map question
September	**Chapter 3** **Chapter 4**	Planning And Development -India's ForeignPolicy	Prepare A Chart On The ContentsOf Article 51. Collect MaterialOn India's Relation With Neighbouring Countries .
	Chapter 5	-Parties And The Party Systems InIndia	-Prepare A Short Write-Up On The Party System In India.

October	**Chapter 6**	-DemocraticResurgence	-Prepare A ChartOn Different Political Party India With Their Symbols. -Students Ask Their Parents OrOthers Elders InThe Family Or Neighborhood About Their Experience During 1975-77. - Put Your Notes Togethers And Make A Collective Report On 'Emergency'.
October	**Chapter 7**	-Regional Aspirations	-Prepare A List Of Major Conflicts And Accords In Various RegionOf The India
November	**Chapter 8**	-Indian Politics :Trends And Developments	-Make An Article Any One Conflicts With New Content (E.G.Kashmir Issue – Removal Of Article 370

SUBJECT BUSINESS STUDIES

Month	**Chapter No**	**Chapter Name**	**Activity/ Cartoon And Map Question**
April	**Chapter 1**	-Constitution: Why And How	- Identify Key Features Of The Constitution And Compare These To Other Constitutions In The World.
	Chapter 7	Federalism	- Map, Cartoon And Assignment
May	**Chapter 8** **Chapter 1**	Constitution As Living Document Political Theory	-Prepare A Chart On Some Of The Recent Amendments In The Constitution. Assignment, Cartoon

			Question
July	**Chapter 2** **Chapter 3**	-Rights In The Indian Constitution - Election And Representation	-Collect Newspaper Clippings Of Election In India And Other Country, Compare The Voter Eligibility Criteria, System Of Representation And \ Role Of The Election Commission Of Different Countries
	Chapter 5	- Legislature	- Find Out The Role And Responsibility Of A Two Houses Of Parliament Form A Youth Parliament In Classroom To Debate And Discussion On Any Bill.
August	**Chapter 2** **Chapter 3** **Chapter 4**	Liberty - Equality Executive	-Find Out What Was The Ancient Notion Of Liberty - Make A List Of Revolutions That Took Place For Liberty - Find Out The Role And Responsibility Of A Civil Servant
September	**Chapter 4** **Chapter 6**	- Justice Judiciary	-Discuss John Rawl's Argument On Justice - Find Out The Details About At Least One Case Involving A Pil And Study The Way In Which That Case Helped In Serving Public Interest.
	Chapter 5	Rights	-Go Through Recent Newspapers Movements That Have Made Proposal For New Kinds Of Rights And Make A List Of People's
October	**Chapter 7**	- Local Government	- Collect The Data On Women Empowerment Through Participation In Local Governments

	Chapter 8	- Secularism	-Make A List Of Subjects Where Local Governments Need More Power To Work. Notes, Worksheet
November	**Chapter 7**	- Nationalism	-Collect The Poems Written By Rabindranath Tagore On Nationalism.
December	**Chapter 6**	Citizenship	- List Some Of The Stateless People Living In India Today. Write A Short Note On Any Of Them.
	Chapter 9	Philosophy Of The Constitution	Cartoon, Worksheet

SUBJECT : PHYSICAL EDUCATION

Month	Topics	Subtopics	Activities/Practicals
April	1. **Changing Trends & Career in Physical Education**	- Definition, aims & objectives of physical education	Introduction tosubject
	2. **Olympic Value Education**	- Olympics, Paralympics, Special Olympics	Discussion on historical aspects
	3. **Physical Fitness, Wellness, and Lifestyle**	- Definition & Importance, Components of physical fitness	Physical fitness tests
	4. **Yoga**	- Meaning & Importance, Elements of Yoga	Practice basic Asanas
May	4. **Yoga (Contd.)**	- Benefits of Yoga for health	Asana practice, Yogic Kriyas
	5. **Physical Activity & Leadership Training**	- Leadership qualities, Role of a Leader, Creating leaders	Adventure sports:Intro to trekking, mountaineering
June	**Summer Break**		

July	6. **Test, Measurement, and Evaluation**	- Meaning & Importance, Somatotypes, Measurement of health-related fitness	BMI calculation,Health-related fitness test
	7. **Fundamentals of Anatomy, Physiology, and Kinesiology**	- Definition & Importance, Skeletal system, Classification of Bones, Types of joints	Study of skeletonmodel, Basic anatomy charts
August	7. **Fundamentals of Anatomy, Physiology, and Kinesiology (Contd.)**	- Muscular system, Respiratory system, Circulatory system, Nervous system	Pulse rate & bloodpressure measurement
	8. **Psychology and Sports**	- Definition & Importance, Stress & Anxiety, Motivation, Aggression in sports	Case studies,Motivation techniques
September	**Mid-Term Examination**		

October	9. **Training and Doping in Sports**	- Meaning, Concepts, Principles of training, Warming Up & Limbering Down, Adaptation	Practical on warming up exercises, Observation of videos on doping
	10. **Physical Education & Sports for CWSN**	- Concept of Disability, Disorder, Types of Disabilities, Adaptive Physical Education	Role-play, Case studies of CWSN
November	11. **Planning in Sports**	- Meaning & Objectives, Committees, Tournaments, Intramurals, Extramurals, Sports Programs	Organizing an intramural event
	12. **Yoga (Advanced)**	- Advanced Asanas, Meditation techniques	Practice of advanced yoga postures, Meditation
December	**Revisions**	- Revision of all topics	Conduct practicals and viva
January	**Pre-Board Examination**		
February	**Final Practicals and Submission of Record File**		Practical exams, Record submission
March	**Annual Examination**		

SUBJECT : ACCOUNTANCY

MONTHS	TOPICS	SUB TOPICS	ASSIGNMENT /PROJECT WORK
APRIL- 2024	**Part A Financial Accounting -1**		

	Theoretical Framework- Introduction to Accounting Basic Accounting Terms	• Meaning, Objectives, Types of Accounts • Accounting Information- Types, role in business, characteristics, advantages and limitations. • Key Terms like Capital, Liabilities, Assets, Expense, Income, Revenue ,Purchase , Sales Voucher, Debtor, Creditor.	Assignment on the importance and objectives of accounting information Worksheet
MAY-2024	Theory Base of Accounting	Accounting Principles, Conventions	Practice Questions
UNIT TEST 1 Theoretical Framework and Basic Accounting Terms			
JULY-2024	Theory Base of Accounting, Accounting Standards and Indian Accounting Standards (Ind-AS) Bases of Accounting Accounting Equation	• Fundamental Accounting assumptions-GAAP: Concept • Basic Accounting Concepts- International Accounting standards • Cash and Accrual Base of Accounting • Accounting Equation: Formats and Balancing of equation	Practice Questions Practice Questions Practice Questions
AUGUST-2024	Accounting Procedures-Rules of Debit and Credit Recording of Business Transactions	• Basic Rules of Debit and Credit • Modern and Traditional Rules of Accounting • Source Documents • Vouchers: Meaning and Preparation • Journal Entries and Theory concepts	Golden Rules Flowchart Construction Practice Questions on real source documents
UNIT TEST 2 1. Theory Base of Accounting, Accounting Standards and Indian Accounting Standards (Ind-AS) 2. Bases of Accounting			

SEPTEMBER	Journal	• Compound Entries	Practice Questions
HALF YEARLY Complete Syllabus Covered so far.			
OCTOBER-2024	Ledger	• Posting of Ledger Entries • Combined journal and ledger entries • Balancing of Accounts	Practice Questions
	Special Purpose Books I-Cash Book	• Cash Book: Simple cash book with bank column and petty cashbook	
	Special Purpose Books II-Other Books	• Purchases book • Sales Book • Purchases Return Book • Sales Return Book • Journal Proper	
NOVEMBER-2024	Accounting of Good and Service Tax (GST)	• Meaning of GST • GST Journal Entries	Practice Questions
	Bank Reconciliation Statement (BRS)	• Need and preparation • BRS format	
	Trial Balance	• Purpose, Preparation, Errors	Assignment on preparing a trial balance and rectifying errors
	Depreciation and Provisions and Reserves	• Meaning, Methods of Depreciation, Provisions	Assignment on calculating depreciation using different methods
UNIT TEST 3 1. Ledger and Cash Book 2. GST			
DECEMBER-2024	Rectification of Errors	• Errors of omission and commission: rectification by passing journal entries	Practice Questions
	Part B Financial Accounting-II		
	Financial Statements of Sole Proprietorship	• Meaning of financial statements • Purpose of financial statements	

		• Preparation of Trading, P&L, Balance Sheet	
JANUARY-2025	Adjustments in Preparation of financial statement	• Adjustments like Depreciation, Outstanding Expenses	Practice Questions
UNIT TEST 4 Financial Statements of Sole Proprietorship with adjustments			
FEBRUARY-2025	Adjustments from Incomplete Records-Single Entry System	• Single Entry System, Statement of Affairs • Revision of syllabus with sample papers	Practice Questions
ANNUAL EXAMS 2025 **Complete Syllabus**			

SUBJECT : BUSINESS STUDIES

MONTHS	**TOPICS**	**SUB TOPICS**	**ASSIGNMENT /PRO WORK**
APRIL- 2024	**Part A: Principles and Fu of Management** Nature and Significance of Management Principles of Management	- Concept, objectives, and importance of management - Management as Science, Art, and Profe - Levels of management - Coordination: Concept and importance - Concept, significance, and principles o management (Fayol and Taylor)	Worksheets
MAY-2024	Business Environment	- Concept and importance of busines environment - Dimensions of business environn - Impact of government policy cha business	Assignment
UNIT TEST :1 Chapter 1: Nature and Significance of Management Chapter 2: Principles of Management			
JULY-2024	Planning	- Concept, importance, and limitations - Planning process - Types of Plans	Group activity on Plan process
UNIT TEST : 2 • Planning • Business Environment			

AUGUST-2024	Marketing Management Consumer Protection	- Concept and functions of marketing - Marketing management philosophies - Marketing mix: Concept and elements - Product mix, Price mix, Place mix, Pro mix - Concept and importance - Consumer Protection Act 2019: Meani significance - Rights and responsibilities of consume - Redressal agencies under Consumer Pr Act - Ways and means of consumer protectio	• Adbee Competitio • Project report on Marketing Manage for a self designed Case Studies
SEP-2024	Organising Revision for Half Yearly 20	- Concept and importance - Organizing process - Structure of organization: Functional a Divisional - Formal and informal organization Revision of all chapters	• Assignments • Worksheets
HALF YEARLY 2024 1. Nature and Significance of Management 2. Principles of Management 3. Business Environment 4. Planning 5. Organising 6. Marketing Management 7. Consumer Protection			
OCTOBER-202	Staffing Directing Controlling	- Concept and importance - Staffing process - Recruitment and Selection - Training and Development - Concept and importance - Elements of Directing: Supervision, Motivation, Leadership, Communica - Concept, importance, and limitation - Relationship between planning and controlling - Steps in the controlling process	Analysis of advertisem vacancies
NOV-2024	**Part B: Business Finance Marketing** Financial Management	- Concept, role, and objectives of financi management - Financial decisions: Investment, Financ Dividend decisions	Extempore

	Financial Markets	- Financial planning: Concept and impor - Capital Structure: Concept and factors - Fixed and Working Capital: Concept a factors - Concept, functions, and types - Money Market and its Instruments - Capital Market and its Types: Primary Secondary - Stock Exchange: Functions and Tradin Procedure - Securities and Exchange Board of Indi (SEBI) – Objectives and Functions	
PRE BOARD 1 Complete Syllabus			
PRE BOARD 2 Complete Syllabus			
BOARD EXAM 2025 Complete Syllabus			

SUBJECT : HINDI

क्र. सं	महीना	विषय वस्तु	संबंधित क्रिया कलाप
1	अप्रेल	आरोह - 1 . हरिवंश राय बच्चन - i आत्मपरिचय ii दिन ज़ल्दी - जल्दी ढलता है। गद्य - भक्तिन	हरिवंश राय बच्चन का जीवन परिचय , व्याख्या व संबंधित कविताओ की जानकारी । समय की परिवर्तनशीलता व अपनेपन की भावना जिम्मेदारी की भावना विकसित करना ।
2	मई	i पतंग (काव्य खण्ड) ii काले मेघा पानी दे वितान - i सिल्वर वेंडिंग ii जूझ	'i . इस कविता के द्वाराबच्चों मेंनई उत्साह और नईअंग की कल्पना की जा सकती हैबच्चों का मन नए नए प् उपमान द्वारा दर्शाया गया । ii .पौराणिक रीति - रिवाज व अंधविश्वासों का खंडन किया है तथा त्याग

			की भावना को दर्शाया गया । आधुनिक और परंपरागत परिवेश में आने वाले अंतर को बढ़ाकर समाज में घट रही आधुनिकता में लिप्त नई पीढ़ी को चित्रित किया ।
3	जुलाई	अभिव्यक्ति और माध्यम - i . विभिन्न माध्यमो के लिए लेखन कुंवर नारायण - i कविता के बहाने ii बात सीधी थी पर	स्तंभ ,संपादकीय फीचर आदि लेखो की संरचना व लेखन के बारे में जानकारी कविता को बहाना बनाकर कभी अपनी हृदय की बात रखना चाहता है भाषा के चक्कर में पड़कर ही स्पष्ट बात को क्लिष्ट शब्दों में कह ने पर भाषा का प्रभाव नष्ट हो जाता है ।
4	अगस्त	अभिव्यक्ति और माध्यम - i .पत्रकारीय लेखन के विभिन् रूप और लेखन प्रक्रिया आरोह - i .पहलवान की ढोलक ii .कवितावली (पद्य) iii .लक्ष्मण मूर्च्छा श और राम विलाप	अखबार पत्र पत्रिकाओं से कुछ चिन्हित लेखो की शैली पर विचार विमर्श । आधुनिकता की दौड़ में किस प्रकार पौराणिक खेल गतिविधियों का हास होना । भगवान श्री रामएक साधन मानव की भांति विलाप करने पर उनकी दुख की जो व्यंजना हुई है उसे प्रकट करना ।

5	सितम्बर	(पद्य) i .उषा ii .बादल राग iii .कैमरे मे बंद अपाहिज गद्य - i .शिरिष के फूल वितान - अतित मे दबे पाँव	प्राकृतिक दृश्य का सुंदर चित्रण करना बादल और उषा कविता में दर्शाया है । मानव अपने स्वार्थ के लिए किसी दुखी व्यक्ति की पीड़ा को भी अपना उद्देश्य बना देता है । कठिन परिस्थितियों में भी अपने आप को जीवन्त रखना एक कला है जिसे शिरिष सिखाता है।
6	अक्टुबर	i . रुबाइयां अभिव्यक्ति और माध्यम - i .विशेष लेखन स्वरूप और प्रकार ii.कैसे करें कहानी का नाटक रूपांतरण iii .कैसे बनता है रेडियो नाटक ।	व्यक्ति को हिंदी की विभिन्न भाषाओं का ज्ञान प्राप्त होगा पटकथा में रूपांतरित करने के लिए लिखा गया लेखन ।
7	नवम्बर	i . छोटा मेरा खेत ii . बगुलों के पंख गद्य i .श्रम विभाजन और जाति प्रथा ii . मेरी कल्पना का आदर्श समाज ।	उमाशंकर जोशी ने अपनी कविताओं में सामान्य वर्ग की विषम परिस्थितियों को उजागर किया है । डॉ भीमराव अंबेडकर ने जाति प्रथा ,श्रम विभाजन की दौड़ में निम्न वर्ग में उच्च वर्ग की स्थितियों को चित्र किया ।
8	दिसम्बर	अभिव्यक्ति और मध्यम - i .नए और अप्रत्याशित विषय का लेख । पुनरावृत्ति कार्य अभ्यास प्रश्न पत्र	विभिन्न लेख को लिखने के लिए बच्चों को तैयार करना उनमे कौशल क्षमता विकसित करना ।