





ENGLISH Session: 2022-23

MONTH	UNIT	READING SKILLS/ASL	WRITING SKILLS	LITERATURE		
	1	Comprehension exercises	Formal Invitation	My Mother at Sixty-Six (poem)		
		from Literary Passages		The Last Lesson		
APRIL			Informal Invitation			
	2	Case based passages	Replies to Invitation	Lost Spring		
	3	1 3	Report writing	The Third Level		
	4	ASL	Article Writing	Deep Water		
МАҮ				The Tiger King		
PIC I	UT1					
	5	ASL		Keeping Quiet (poem)		
			Notice Writing	The Rattrap		
JUNE	6			Journey to the End of the Earth		
		Comprehension from Discursive	Letter to the Editor	Indigo		
JULY	7	Passages		A Thing of Beauty (poem)		
				The Enemy		
	UT2					



ENGLISH Session: 2022-23

CBSE

contd.

MONTH	UNIT	READING SKILLS/ASL	WRITING SKILLS	LITERATURE	
	8	Inference from Context		Going Places	
AUGUST		Comprehension	Job Application	On the Face of It	
	9	from Factual		Poets and Pancakes	
		Passages		The Interview	
SEPTEMBER	10		REVISION AND BLOC	K TEST	
OCTOBER	11	Comprehension from Analytical Passages	Job Application	Memories of Childhood	
	12	ASL	Letter to the Editor	A Roadside Stand (poem)	
NOVEMBER	12	ASL		Aunt Jennifer's Tigers (poem)	
	REVISION				
DECEMBER	PRE BOARD EXAMINATION				

Pre Board Syllabus as prescribed by CBSE



PHYSICS Session: 2022-23

MONTH	CHAPTER	TOPICS	SUB TOPICS
		ELECTROSTATICS RAY OPTICS	Electric charges and their conservation. Coulomb's law - force between two-point charges, forces between multiple charges; superposition principle and continuous charge distribution. Electric field, electric field due to a point charge, electric field lines; electric dipole, electric field due to a dipole; torque on a dipole in a uniform electric field. Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long
APRIL			straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside).
APRIL	IX		Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two- point charges and of electric dipoles in an electrostatic field.
			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)
			Reflection of light, spherical mirrors, mirror formula. Refraction of light, total internal reflection optical fibres, refraction at spherical surfaces, lenses, thin lens formula, lens- maker's formula. Magnification, power of a lens, combination of thin lenses in contact.
			Refraction of light through a prism.
			Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.



PHYSICS Session: 2022-23

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MONTH	CHAPTER	TOPICS	SUB TOPICS
JUNE	II	CURRENT ELECTRICITY	Electric current, flow of electric charges in a metallic conductor, drift velocity and mobility, and their relation with electric current; Ohm's law, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity. C; temperature dependence of resistance.
			Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel.
			Kirchhoff 's laws. Wheatstone bridge
			UNIT TEST 1
JUNE AND JULY	III Magnetic Effects of Current and Magnetism	of Current and	Concept of magnetic field, Oersted's experiment. 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 a magnetic field; moving coil galvanometer-its current sensitivity and conversion to ammeter and voltmeter.
		Current loop as a magnetic dipole and its magnetic dipole moment. Magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis. Torque on a magnetic dipole (bar magnet) in a uniform magnetic field (qualitative treatment only); bar magnet as an equivalent solenoid, magnetic field lines(qualitative treatment only) Para-, dia- and ferro - magnetic substances, with examples. Magnetisation of materials; Effect of temperature on Magnetic Properties	



PHYSICS Session: 2022-23

CBSE

MONTH	CHAPTER	TOPICS	SUB TOPICS		
	UNIT TEST 2				
JULY	IV	Electromagnetic Induction and Alternating Currents	Electromagnetic induction; Faraday's law, induced emf and current; Lenz's Law, Self and mutual inductance.		
			Alternating currents, peak and rms value of alternating current /voltage; reactance and impedance; LCR series circuit (Phasors only), resonance; power in AC circuits, power factor, wattless current. AC generator and transformer.		
AUGUST	V	Electromagnetic Waves	Basic idea of displacement current, Electromagnetic waves and their characteristics (qualitative ideas only). Transverse nature of electromagnetic waves. Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, x-rays, gamma rays) including elementary facts about their uses.		
	Х	WAVE OPTICS	Wavefront and Huygens' principle, reflection and refraction of plane wave at a plane surface using wavefronts. Proof of laws of reflection and refraction using Huygens' principle. Interference, Young's double slit experiment (No derivation final expression only) and expression. for fringe width, coherent sources and sustained interference of light. Diffraction due to a single slit, width of central maximum (qualitative treatment only).		
			BLOCK TEST 1		
SEPTEMBER	XI	Photoelectric Effect Dual nature and matter waves	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.		



PHYSICS Session: 2022-23

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MONTH	CHAPTER	TOPICS	SUB TOPICS	
OCTOBER	XII & XIII	ATOMS AND NUCLEI	Alpha - particle scattering experiment; Rutherford's model of atom; Bohr model of Hydrogen atom, expression of radius of nth possible orbit, velocity and energy in this orbit of Hydrogen line spectra (qualitative treatment only), Composition and size of nucleus, nuclear force atomic masses, Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission and fusion.	
NOVEMBER	XIV	ELECTRONIC DEVICES	Energy Bands in conductors, Semiconductors and insulators (qualitative treatment only), intrinsic and extrinsic semiconductors, p type and n type, pn junction; semiconductor diode - I-V characteristics in forward and reverse bias, diode as a rectifier;	
NOVEMBER	REVISION FOR PREBOARD EXAMINATION			
DECEMBER		PREBOARD EXAMINATION		

Syllabus for Preboard examination - as prescribed by CBSE



CHEMISTRY Session: 2022-23

MONTH	CHAPTER NO.	CHAPTER	CONTENTS
APRIL	=	Solutions	 Types of solutions. Expression of concentration of solutions of solids in liquids Solubility of gases in liquid, solid in liquid. Colligative properties: relative lowering of vapour pressure, Raoult's law, elevation of boiling point, depression of freezing point, osmotic pressure Determination of molecular masses using colligative properties Abnormal molecular mass, Vant Hoff factor
MAY	IV	Chemical Kinetics	 Rate of a reaction (average and instantaneous) Factors affecting rates of reaction. 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) Activation energy, Arrhenius equation Concept of collision theory (elementary idea, no mathematical treatment)
			UNIT TEST -1
JUNE	111	Electrochemistry	 EMF of a cell, standard electrode potential Nernst equation and its application to chemical cells. Relation between Gibbs energy change and EMF of a cell. Conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration. Kohlrausch's Law. Electrolysis and laws of electrolysis (elementary idea) Dry cell – electrolytic cells and galvanic cells. Fuel cells; corrosion.



CHEMISTRY Session: 2022-23

CBSE

MONTH	CHAPTER NO.	CHAPTER	CONTENTS
JULA	Х	Haloalkanes and Haloarenes	 Haloalkanes: Nomenclature, nature of C-X bond, physical and chemical properties, mechanism of substitution reactions. Optical isomerism. Haloarenes: Nature of C-X bond, substitution reactions (directive influence of halogen for monosubstituted compounds only). Uses and environmental effects of – dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.
JULY			UNIT TEST-2
JULA	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.
AUGUST	XII	Aldehydes, Ketones and Carboxylic Acids	 Aldehydes and Ketones: Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties, and mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes; uses. Carboxylic Acids: Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses



CHEMISTRY Session: 2022-23

CBSE

MONTH	CHAPTER NO.	CHAPTER	CONTENTS
AUGUST	XIII	Amines	 Preparation, physical and chemical properties, uses, identification of primary secondary and tertiary amines. Cyanides and Isocyanides – will be mentioned at relevant places in context. Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.
SEPTEMBER		REVISI	ON AND BLOCK TEST 1
OCTOBER	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 K2Cr207 and KMn04. Lanthanoids - electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction and its consequences. Actinoids - Electronic configuration, oxidation states and comparison with lanthanoids.
OCTOBER	IX	Coordination Compounds	 Coordination compounds: Introduction, Werner's theory, ligands, coordination number, colour, magnetic properties and shapes IUPAC nomenclature of mono nuclear coordination compounds,



CHEMISTRY Session: 2022-23

CBSE

MONTH	CHAPTER NO.	CHAPTER	CONTENTS	
NOVEMBER	IX (contd.)	Coordination Compounds contd.	 isomerism (structural and stereo) Bonding, VBT, CFT Importance of coordination compounds (in qualitative analysis, extraction of metals and biological systems). 	
NOVEMBER	XIV	Biomolecules	 Carbohydrates - Classification (aldoses and ketoses), monosaccharide (glucose and fructose), D-L configuration, oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen): importance of carbohydrates. Proteins - Elementary idea of a - amino acids, peptide bond, polypeptides, proteins, primary structure, secondary structure, tertiary structure and quaternary structure (qualitative idea only), denaturation of proteins; enzymes. Vitamins - Classification and functions. Nucleic Acids: DNA and RNA 	
NOVEMBER	REVISION			
DECEMBER	PRE- BOARD EXAMINATION			



MATHEMATICS Session: 2022-23

MONTH	TOPICS	SUBTOPICS
		Relation, Relation on a set. Types of Relations
		Equivalence Relation, Equivalence Class
APRIL	Relation and Functions	Function, different types of Function, One one and onto function,
		Domain and Range of Inverse Trigonometric Functions and related formulas, graphs of inverse trigonometric functions
	Continuity	Continuity
		UT 1
MAY-JUNE	Differentiability Differentiability test, Derivative (Chain 1 1st. Order and Higher order	
	Application of Derivatives	Rate Measure (Application in Sphere, Cylinder, Cone etc.), Increasing & Decreasing Functions
JULY	Application of Derivatives	Local Minima, Maxima, Absolute Maxima and Minima, Point of Inflexion, Concavity and word problems related to cylinder, cone, etc.
		UT2
	Matrices and Determinants	Matrices (Transpose, Adjoint and Symmetric and Skew symmetric, Inverse), Solve by matrix method (Martin's Rule), Word problem by matrix method. Existence of non-zero matrices whose product is zero matrix (up to order 2)
		Determinants, consistency and inconsistency, no of solutions, Area of triangle
	LPP	Introduction and related terminology, Mathematical Formulation of L.P.P



MATHEMATICS Session: 2022-23

CBSE

MONTH	TOPICS SUBTOPICS		
	LPP	Graphical solution (Bounded and Unbounded Region)	
AUGUST	Indefinite	Integration Properties, Formulae, solution by substitution, by parts	
AUGUST	integral	Partial fraction, Special integrals	
	Definite Integral	Fundamental Theorem of Calculus, Different properties of Definite Integrals	
	-	BT 1	
OCTOBER	Probability	Probability (Conditional), Baye's Theorem, Random Variable, Distribution, Mean and Variance	
	Area Under Curve	Area under curve (Rough sketch of curve and calculating area by using integration), only straight lines and standard form of conics	
OCTOBER - NOVEMBER	Differential Equation	Differential Equations, Order & Degree, and Solution of the differential equation, Method of separation, substitution, homogeneous diff equation, integrating factor and linear diff equation	
NOVEMBER	Vectors	Position Vectors, Section formula, direction cosines and direction ratios, dot and cross product related sums, geometrical interpretation	
	3D-Geometry	Direction Cosine of Line, Angle between Lines, Condition of parallel and perpendicular Lines, Straight Line, Equation of line passing through two points, Shortest distance between two Skew Lines.	
DECEMBER	PREBOARD		



BIOLOGY Session: 2022-23

MONTH	UNIT	NAME OF THE CHAPTERS		
APRIL		Sexual Reproduction in Flowering Plants		
MAY	Reproduction	Human Reproduction		
MAT		Reproductive Health- Introduction		
	UNIT TES	571		
JUNE	Reproduction	Reproductive Health - Continued		
JONE	Genetics and Evolution	Principles Of Inheritance and Variation		
	Genetics and Evolution	Molecular Basis of Inheritance		
JULY	Genetics and Evolution	Theory of Evidences of Evolution		
	Biology in Human Welfare	Microbes In Human Welfare - Introduction		
	UNIT TEST II			
	Biology in Human Welfare	Microbes in Human Welfare Continued		
AUGUST		Human Health and Diseases - Introduction		
SEPTEMBER	Biology in Human Welfare	Human Health and Diseases- Continued		
	BLOCK TE	STI		
OCTOBER	Biotechnology	Biotechnology: Principles and Process		
	Biotechnology	Biotechnology and Its Application		
NOVEMBER		Organisms and Population		
	ECOLOGY	Ecosystems		
		Biodiversity and Conservation		
NOVEMBER	REVISION FOR PRE BOARD EXAMINATION			
DECEMBER	PRE BOARD EXAMINATION			



COMPUTER SCIENCE Session: 2022-23

MONTH	TOPIC	SUB-TOPIC
		Tokens in Python
		Variables and Assignments
		Simple Input and Output
	Python	Data Types
	Revision Tour	Mutable and Immutable Types
		Expressions
APRIL		Statement Flow Control
		Looping Statements
		Strings in Python
	Python	Lists in Python
	Revision Tour- II	Tuples in Python
		Dictionaries in Python
		Sorting Techniques
MAY	Working with Functions	Types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope)
	-	UNIT TEST - 1
JUNE	Using Python Libraries	Creating python libraries
	File Handling	Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths
JULY		Text file: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appending data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods, manipulation of data in a text file



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COMPUTER SCIENCE Session: 2022-23

MONTH	TOPIC SUB-TOPIC	
JULY	File Handling	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 csv. writerow() and read from a csv file using csv.reader()
		UNIT TEST - 2
	Data Structures: Linear Lists	Stack, operations on stack (push & pop), implementation of stack using list. Introduction to queue, operations on queue (enqueue, dequeue, is empty, peek, is full), implementation of queue using list.
	Database Management	Database concepts: introduction to database concepts and its need
		Relational data model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key)
AUGUST	Database Management	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, equijoin and natural join



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Class XII

COMPUTER SCIENCE Session: 2022-23

CBSE

MONTH TOPIC SUB-TOPIC **BLOCK TEST - I** Connecting SQL with Python, performing insert, update, Interface delete queries using cursor, display data by using OCTOBER Python with fetchone(), fetchall(), rowcount, creating database MySQL connectivity applications Evolution of networking: introduction to computer networks, evolution of networking (ARPANET, NSFNET, INTERNET) Data communication terminologies: concept of communication, components of data communication (sender, receiver, message, communication media, protocols), measuring capacity of communication media (bandwidth, data transfer rate), IP address, switching techniques (Circuit switching, Packet switching) Transmission media: Wired communication media (Twisted pair cable, Co-axial cable, Fibre-optic cable), Wireless media (Radio waves, Microwaves, Infrared wavesl Network devices (Modem, Ethernet card, RJ45, Repeater, Computer NOVEMBER Hub. Switch. Router. Gateway. WIFI card) Networks 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, wireless/mobile communication protocol such as GSM, GPRS and WLL Mobile telecommunication technologies: 1G, 2G, 3G, 4G and 5G Introduction to web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting DECEMBER PRE BOARD EXAMINATION



ECONOMICS Session: 2022-23

MONTH	UNIT	TOPIC	SUB TOPIC
APRIL	Part A Unit1	Macroeconomics	What is Macroeconomics? National Income and Related Aggregates: Some basic concepts: consumption goods, capital goods, final goods, intermediate goods, stocks and flows; gross investment and depreciation. Circular flow of income (two sector model). Methods of calculating National Income-Value Added or Product method, Income method, Expenditure method. Aggregates related to National Income: Gross National Product (GNP), Net National Product (NNP), Gross and Net Domestic Product (GDP and NDP) - at market price, at factor cost; Real and Nominal GDP. GDP and Welfare.
ΜΑΥ	Part B Unit 6	Indian Economy	 A brief introduction of the state of Indian economy on the eve of independence. Development Experience (1947-90) a. Indian economic system and common goals of Five- Year Plans. b. Main features, problems and policies of agriculture (institutional aspects and new agricultural strategy), industry (IPR 1956, Role and importance of SSI.) and foreign trade. Economic Reforms since 1991: Liberalisation, Privatisation and Globalisation: Features and Appraisals. Concepts of GST and Demonetisation.
		МА	Y/JUNE (UNIT TEST 1)
JUNE	Part A Unit 2	Macroeconomics	Money and Banking Money - meaning and functions, supply of money - Currency held by the public and net demand deposits held by commercial banks. Money creation by the commercial banking system. Central bank and its functions (example of the Reserve Bank of India): Bank of issue, Bank of government, Banker's Bank, Control of Credit through Bank Rate, CRR, SLR, Repo Rate and Reverse Repo Rate, Open Market Operations, Margin requirement.
JULY	Part B Unit 7	Indian Economic Development	Current challenges facing Indian Economy: Rural development : Key issues in rural development- Credit and marketing. Role of cooperatives, Agricultural diversification. Alternate farming - organic farming.



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ECONOMICS Session: 2022-23

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MONTH	UNIT	TOPIC	SUB TOPIC	
JULA	Part B Unit 7	Indian Economic Development	Human Capital Formation in India- Sources, Role of human capital in economic development, Growth of Education sector in India. Employment: Growth and changes in workforce participation rate in formal and informal sectors; problems and policies.	
	Part A Unit 4	Macroeconomics	Government budget - Meaning, objectives and components. Classification of receipts - revenue receipts and capital receipts; classification of expenditure - revenue expenditure and capital expenditure. Balanced, Surplus and deficit budget. Measures of government deficit - revenue deficit, fiscal deficit, primary deficit their meaning.	
	JULY (UNIT TEST 2)			
AUGUST	Part A Unit 3	Macroeconomics	Determination of Income and Employment: Aggregate demand and its components. Propensity to consume and propensity to save (average and marginal). Short-run equilibrium output; investment multiplier and its mechanism. Meaning of full employment and involuntary unemployment. Problems of excess demand and deficient demand; Measures to correct them- changes in government spending, taxes and money supply.	
		SEPTEMBE	R REVISION AND BLOCK TEST	
OCTOBER	Unit 8	Indian Economic Development	Current challenges facing Indian Economy Sustainable Economic Development: Meaning, Effects of Economic Development on Resources and Environment, including global warming. Development Experience of India: Comparison with Neighbours: India and Pakistan, India and China. Issues: Growth, population, sectoral development and other developmental indicators.	
NOVEMBER	Part A Unit 5	Macroeconomics	Balance of Payments Balance of payments account - meaning and components; balance of payments surplus and deficit. Foreign exchange rate - meaning of fixed and flexible rates and managed floating. Determination of exchange rate in a free market. Merits and demerits of flexible and fixed exchange rate. Managed floating exchange rate system.	
DECEMBER			PRE BOARD COMMENCES	





ACCOUNTANCY Session: 2022-23

MONTH	TOPIC	SUB TOPIC	
	Company Accounts	Issue of Shares at Par and Premium and consideration other than cash	
		Calls in Arrear, Calls in Advance and Over Subscription	
APRIL		Forfeiture of shares issued at par and premium and there subsequent reissue. Over subscription with Forfeiture	
		Balance Sheet Representation as per Schedule III of Companies Act 2013 of Shareholders Fund (including prorata)	
	Company Accounts	Prorata allotment and balance sheet representation continued	
ΜΑΥ	Financial statement Anal- ysis	Financial Statements of Companies and Theory of Financial Statement Analysis. Statement of Profit and Loss as per schedule III of Companies Act	
	UT 1		
JUNE	Financial statement	Ratio Analysis	
	Financial statement Analysis	Cash Flow Statement	
JULY	Partnership	Fundamentals of Partnership - Theory, P/L Appropriation Account, Interest on Capital, Interest on Drawings, Fluctuating and Fixed Capital Accounts, Rectification of Closed Accounts and Guarantee of Minimum Share of Profit	
	UT 2		



ACCOUNTANCY Session: 2022-23

CBSE

MONTH	ТОРІС	SUB TOPIC	
AUGUST	Partnership	Change in Profit Sharing Ratio among existing Partners - Calculation of Sacrificing and Gaining Ratio, Valuation of Goodwill, Treatment of Goodwill, Treatment of Reserves and Accumulated Profits and Revaluation of Assets and Liabilities. Including preparation of new balance sheet	
	i artifersnip	Admission of a Partner - Premium for Goodwill and preparation of Revaluation Account, Partners Capital Account and Balance Sheet of reconstituted firm along with Hidden Goodwill and Adjustment of Capital	
	REVISION AND BLOCK TEST 1		
SEPTEMBER	Partnership	Retirement of a Partner along with Partners Loan Account and Balance Sheet	
OCTOBER	Partnership	Retirement of a Partner along with Partner's Loan Account and Balance Sheet, Death of a Partner along with Executor's Loan Account	
	Partnership	Dissolution of a firm along with Memorandum Balance Sheet and Journal Entries.	
		Issue of Debentures - Issued at Par, Premium and Discount,	
NOVEMBER	Company Accounts	Issue of Debentures as Collateral Securities and Issue of Debentures for consideration other than cash	
	REVISION		
DECEMBER	PRE BOARD		



BUSINESS STUDIES Session: 2022-23

MONTH	TOPIC	SUB TOPIC
	Nature and Significance of	Characteristics and Objectives Of management, Nature and levels of Management
	Management	Functions and Coordination
APRIL	Principles of Management	Fayol's Principal Contd and Taylor's Principles and Technique and Comparison between Taylor and Fayol
	Business Environment	Introduction of Business Environment, Features and Importance
	Business Environment	Dimensions of business environment, Demonetisation - concept and importance
MAY	Marketing Management	Marketing Management - Meaning, Functions and Marketing Philosophies and Marketing Mix Introduction
		UT 1
JUNE	Marketing Management	Marketing mix -Product, Price, Place and Promotion along with Public Relations
JULY	Financial Markets	Concept, Types, Money market and its instruments, Distinction between Money Market and Capital Market, Stock Exchange and its Function and Trading Procedure and Securities and Exchange Board of India - Objectives and functions
JULI	Financial Management	Three important decisions - Meaning and Factors effecting the same, Financial Planning - Objectives and Importance Capital Structure concept along with Trading on Equity, Fixed and Working Capital and factors affecting the decisions of Fixed and Working Capital
AUGUST	Consumer Protection	Concept and Importance, Consumer Protection Act 2019, Role of NGO's and Non-Governmental organisations



BUSINESS STUDIES Session: 2022-23

CBSE

MONTH	TOPIC SUB TOPIC	
	Planning	Concept and Importance, Limitations, Planning Process and Types of Plans
AUGUST	Organising	Concept and Importance, Organising Process, Structure of Organisation - Divisional and Functional Structure, Types of Organising, Formal and Informal, Delegation and Decentralisation-Concept, Elements Importance
	REVISIO	N AND BLOCK TEST I
SEPTEMBER	Staffing	Concept and Importance, Staffing as a part of HRM, Staffing Process and Sources of Recruitment - Internal and External - Merits and Demerits
OCTOBER	StaffingSelection Process, Training and Development - Concept, Importance and Methods	
NOVEMBER	Directing	Concepts, Importance and Elements. Motivation- Concept, Maslow's Theory and Financial and Non-Financial Incentives, Leadership - Concepts, Styles of Leadership, Communication - Concept, Formal and Informal Communication, Barriers to Communication and how to overcome Barriers to Communication
	Controlling	Concept, Importance, Process of Controlling, Relationship between Planning and Controlling.
		REVISION
DECEMBER		PRE BOARD





INFORMATICS PRACTICES Session: 2022-23

MONTH	TOPIC	SUB-TOPIC
APRIL	APRIL 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; series attributes, head and tail functions; selection, indexing and slicing. Data Frames: creation of data frames from dictionary of series, list of dictionaries, text/CSV files, display, iteration. Operations on rows and columns: add add (insert /append), select, delete (drop column and row), rename, Head and Tail functions,
		indexing using labels
MAY	Data Handling using Pandas -I	Boolean indexing; joining, merging and concatenation of data frames. Importing/Exporting Data between CSV files and Data Frames.
		UNIT TEST - 1
JUNE	Data Handling using Pandas -II	Descriptive Statistics: max, min, count, sum, mean, median, mode Data Frame operations: Sorting
	Data Handling using Pandas -II	Data Frame operations: Deleting and Renaming Index, Handling missing values – dropping and filling. Importing/Exporting Data between MySQL database and Pandas.
JULY	Data Visualization	Purpose of plotting, drawing and saving of plots using Matplotlib (line plot, bar graph, histogram). Customizing plots: color, style (dashed, dotted), width; adding label, title, and legend in plots.
		UNIT TEST - 2
AUGUST	Database Query using SQL	Database Concepts: Introduction to database concepts and its need, Database Management System. Relational data model: concept of attribute, domain, tuple, relation, candidate key, primary key, alternate key, foreign key. Structured Query Language: Data Definition Language, Data Query Language and Data Manipulation Language, Introduction to MySQL: Creating a database, using database, showing tables using MySQL, Data Types: char, varchar, int, float, date Data Definition Commands: CREATE, DROP, ALTER (Add and Remove primary key, attribute).



INFORMATICS PRACTICES Session: 2022-23

CBSE

MONTH	TOPIC	SUB-TOPIC	
AUGUST	Database Query using SQL	Data Query Commands: SELECT-FROM- WHERE, LIKE, BETWEEN, IN, ORDER BY, using arithmetic, logical, relational operators and NULL values in queries, Distinct clause Data Manipulation Commands: INSERT, UPDATE, DELETE.	
SEPTEMBER C	Database Query using SQL	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 (). Aggregate Functions: MAX (), MIN (), AVG (), SUM (), COUNT (); using COUNT (*). Querying and manipulating data using Group by, Having, Order by. Operations on Relations - Union, Intersection, Minus, Cartesian Product, JOIN (Cartesian Join, Equi Join, Natural Join)	
BLOCK TEST - I			
	ntroduction o Computer Networks	Introduction to networks, Types of network: LAN, MAN, WAN. Network Devices: modem, hub, switch, repeater, router, gateway Network Topologies: Star, Bus, Tree, Mesh.	
	ntroduction o Computer Networks	Introduction to Internet, URL, WWW 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.	
NOVEMBER	Societal Impacts	Digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR), plagiarism, licensing 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.	
DECEMBER		PRE BOARD EXAMINATION	



HISTORY Session: 2022-23

MONTH	UNIT	ТОРІС
	1	The Story of the First Cities: Harappan Archaeology
APRIL/MAY	2	Political and Economic History: How Inscriptions tell a story
	3	Social Histories: Using the Mahabharata
		UT 1
JUNE	4	A History of Buddhism: Sanchi Stupa
	5	Medieval Society through Travelers' Accounts
	6	Religious Histories: The Bhakti and Sufi Tradition
JULY	7	New Architecture: Hampi
		UT 2
	8	Agrarian Relations: The Ain-i-Akbari
AUGUST	9	Colonialism and Rural Society: Evidence from Official Reports
		BLOCK TEST
SEPTEMBER	10	Representations of 1857
AND OCTOBER	11	Mahatma Gandhi through Contemporary Eyes
NOVEMBER		
	12	The Making of the Constitution
		REVISION
DECEMBER	PRE BOARD	



GEOGRAPHY Session: 2022-23

CBSE

MONTH	UNIT	TOPIC	SUB TOPIC		
APRIL	I	Human Geography	Nature and scope		
MAY	II A	People	Population-distribution, density and growth. Population change- Components of population change, Demographic transition.		
			UT1		
	II B	People	Human development - concept; selected indicators, international comparisons		
JUNE	III A	Human Activities	Primary activities - concept and changing trends; gathering, pastoral, mining, subsistence agriculture, modern agriculture; people engaged in agricultural and allied activities - some examples from selected countries		
	III B	Human Activities	Secondary activities-concept; manufacturing: types - household, small scale, large scale; agro based and mineral based industries; people engaged in secondary activities - some examples from selected countries		
JULY	III C	Human Activities	Tertiary Activities-Concept; Trade, Transport And Tourism; Services; People Engaged In Tertiary Activities - Some Examples From Selected Countries		
			UT2		
	III D	Human Activities	Quaternary Activities-Concept; People Engaged In Quatenary Activities - Case Study From Selected Countries		
AUGUST- SEPTEMBER	IV	Transport And Communication	Land Transport - Roads, Railways; Trans- Continental Railways. Water Transport- Inland Waterways; Major Ocean Routes. Air Transport- Intercontinental Air Routes. Oil And Gas Pipelines. Satellite Communication And Cyber Space- Importance And Usage For Geographical Information; Use Of GPS. International Trade- Bases and Changing Patterns; Ports As Gateways Of International Trade; Role Of Wto In International Trade		
	BLOCK TEST 1				
OCTOBER	V				
	REVISION				
DECEMBER		PRE BOARD			

PRE-BOARD SYLLABUS AS PER CBSE SPECIFICATION THEORY PAPER 70 MARKS + PRACTICAL WORK 30 MARKS

CBSE



GEOGRAPHY Session: 2022-23

	INDIA PEOPLE AND ECONOMY [PART B]			
MONTH	UNIT	TOPIC	SUB TOPIC	
APRIL	VI A	People	Population: distribution, density and growth; composition of population - linguistic, religious; sex, rural-urban and occupational- regional variations in growth of population.	
			UT 1	
MAY AND JUNE	VII	Human Settle- ments	Rural settlements - types and distribution. Urban settlements - types, distribution and functional classification.	
VIII A	VIII A	Resources And Development	Land resources- general land use; agricultural land use; geographical conditions and distribution of major crops (Wheat, Rice, Tea, Coffee, Cotton, Jute, Sugarcane and Rubber); agricultural development and problems	
JULY	VIII B	Resources And Development	Water Resources-Availability and Utiliza- tion- Irrigation, Domestic, Industrial and Oth- er Uses; Scarcity Of Water And Conservation Methods- Rain Water Harvesting And Water- shed Management	
			UT2	
AUGUST - SEPTEMBER	VIII C	Resources And Development	Mineral and energy resources- distribution of metallic (Iron ore, Copper, Bauxite, Manganese); non-metallic (Mica, Salt) minerals; conventional (Coal, Petroleum, Natural gas and Hydroelectricity) and non- conventional energy sources (solar, wind, biogas) and conservation	
	VIII D	Resources and Development	Planning in India- target group area planning (case study); idea of sustainable development (case study)	
BT1				



GEOGRAPHY Session: 2022-23

CBSE

MONTH	UNIT	TOPIC	SUB TOPIC	
OCTOBER	IX	Transport Communication and International Trade	Transport and communication-roads, railways, waterways and airways: oil and gas pipelines; Geographical information and communication net works. International trade- changing pattern of India's foreign trade; sea ports and their hinterland and airports	
NOVEMBER	х	Geographical Perspective On Selected Issues and Problems	Environmental pollution; urban-waste disposal. Urbanization, rural- urban migration; problems of slums. Land degradation.	
	REVISION			
DECEMBER	PRE BOARD			
	PRE-BOARD SYLLABUS AS PER CBSE SPECIFICATION			
THEORY PAPER 70 MARKS + PRACTICAL WORK 30 MARKS				



POLITICAL SCIENCE Session: 2022-23

MONTH	UNITS	BOC	DK 1 : CONTEMPORARY WORLD POLITICS		
MUNIH	UNITS	TOPIC	SUB -TOPIC		
APRIL- MAY	1	The End of Bipolarity	Disintegration of Soviet Union, Unipolar World, Middle East crisis-Afghanistan, Gulf War, Democratic Politics and Democratization- CIS and the 21st Century (Arab Spring)		
	2	New Centres of Power	Organisations: European Union, ASEAN, SAARC, BRICS Nations: Russia, China, Israel, India, Japan and South Korea		
			UNIT TEST 1		
JUNE	3	Contemporary South Asia	Conflicts and efforts for Peace and Democratization in South Asia: Pakistan, Nepal, Bangladesh, Sri Lanka, Maldives		
	4	United Nations and its Organizations	Principle Organs Key Agencies: UNESCO, UNICEF, WHO, ILO, Security Council and the Need for its Expansion.		
	5	Security in Contemporary World	Security: Meaning and Types; Terrorism		
JULY	6	Environment and Natural Resources	Environmental Movements Global Warming and Climate Change Conservation of Natural Resources		
	7	Globalisation	Meaning Manifestations Debates		
	UNIT TEST 2				
AUGUST	1	Challenges of Nation-Building	Nation and nation-building. Sardar Patel and the Integration of States Nehru's Approach to Nation- Building; Legacy of Partition: Challenge of Refugee resettlement, The Kashmir Problem. Political conflicts over language and linguistic organization of state		
	2	Planned Development	Changing Nature of India's Economic Development Planning Commission and Five-year Plans National Development Council NITI Aayog.		
		India's Foreign	Principles of Foreign Policy;		



POLITICAL SCIENCE Session: 2022-23

CBSE

		BOOK 1 : CONTEMPORARY WORLD POLITICS		
MUNIH	UNITS	TOPIC	SUB -TOPIC	
AUGUST	3	Policy	India's Changing Relations with Other Nations: US, Russia, China, Israel. India's Relations with its Neighbours: Pakistan, Bangladesh, Nepal, Bhutan, Sri Lanka and Myanmar. India's Nuclear Programme	
	4	Parties and the Party Systems in India	One-Party Dominance, Bi-party System Multi-party Coalition System	
SEPTEMBER	5	Democratic Resurgence	Jayaprakash Narayan and Total Revolution, Ram Manohar Lohia and Socialism, Pandit Deendayal Upadhyay and Integral Humanism, National Emergency Democratic Upsurges – Participation of the Adults, Backwards and Youth.	
		E	BLOCK TEST 1	
OCTOBER	6	Regional Aspirations	Rise of regional parties. Punjab crisis The Kashmir issue Movements for Autonomy	
NOVEMBER	7	Indian Politics: Recent Trends and Developments	Era of Coalitions: National Front, United Front, United Progressive Alliance [UPA] – I & II, National Democratic Alliance [NDA] – I, II, III & IV, Issues of Development and Governance	
DECEMBER	PRE-BOARDS			
JANUARY	BOARD PRACTICALS/ REVISION WORK			
FEBRUARY - MARCH	STUDY LEAVE / BOARD EXAMS			



PSYCHOLOGY Session: 2022-23

MONTH	UNITS/	PSYCHOLOGY CLASS 12		
MUNTH	CHAPTERS	TOPIC	SUB-TOPIC	
APRIL & MAY	4	Psychological Disorders	Concept of Abnormality, and Psychological Disorders Classification of Disorders Characteristics of Disorders Major Psychological Disorders	
		Practical - Project CBSE Case Study	Introduction to Case Study, Format of Data Taking Data Collection and Report Writing Guidelines	
		UN	ITTEST 1	
	1	Variations In Psychological Attributes	Individual Differences in Human Functioning Assessment of Intelligence Theories of Intelligence Special Abilities - Aptitude, Nature and Measurement Creativity, Emotional Intelligence.	
JUNE	2	Self And Personality	Personality Nature and Definition Major Approaches - Types and Traits Assessment of Personality - Self Report, Behavioural Rating, Projective Techniques	
		Practical Testing 1	Assessment of Intelligence Using a Suitable Test	
JULY	3	Meeting Life Challenges	Stress - Nature and Definition Effects of Stress Coping with Stress Promoting Positive Health and Wellbeing. Nature And Scope of Therapy. Types of Therapy	
	5	Therapeutic Approaches	Personality Nature and Definition Major Approaches -Types and Traits Assessment of Personality - SelfReport, Behavioural Rating, Projective Techniques	
		Practical Testing 2	IT TEST 2	
	6	Attitude and social cognition	What is attitude, attitude formation and change, prejudice and discrimination	
	7	Social influence and group processes	Nature of groups, types of groups, influence of groups on individuals	
SEPTEMBER			Assessment of self concept	
AND OCTOBER	Practical Testing 4 Assessment of Adjustment Pattern			
SEPTEMBER		REVISION AND BLOCK TEST		
NOVEMBER		5	Measurement of attitude	
	Supplementary Study Material by CBSE			
DECEMBER	PRE-BOARDS			



PHYSICAL EDUCATION Session: 2022-23

MONTH	UNIT	TOPIC	SUB TOPIC
		Management of Sporting Event	Function of Sports Events Management (Planning, Organising, Staffing, Directing & Controlling)
APRIL	1		Various Committees & their Responsibilities (Pre, During and Post)
			Fixture and its Procedures- Knock-Out (Bye & Seeding) & League (Staircase & Cyclic)
		Children & Women in Sports	Common Postural Deformities - Knock Knee, Bow Legs, Flat Foot, Round Shoulders, Lordosis, Kyphosis and Scoliosis and their corrective measures.
MAY	2		Special consideration (Menarche & Menstrual Dysfunction)
			Female Athletes Triad (Osteoporosis, Amenorrhoea, Eating Disorders)
	UNIT 1		
		Yoga as Preventive	Obesity: Procedure, Benefits & contraindications for Vajrasana, Hastotansana, Trikonasana, Ardh- Matsyendrasana
JUNE			Diabetes: Procedure, Benefits & contraindications for Bhujangasana, Paschimottanasana, Pavan Muktasana, Ardh Matsyendrasana, Kapalabhati.
JUNE	3	measures for Lifestyle Disease	Asthma: Procedure, Benefits & Contraindication for Sukhasana, Chakrasana, Gomukhasana, Parvatasana, Bhujangasana, Paschimottanasana, Matsyasana, Anulom-Vilom.
			Hypertension: Tadasana, Vajrasana, Pavan Muktasana, Ardha Chakrasana, Bhujangasana, Shavasana



PHYSICAL EDUCATION Session: 2022-23

MONTH	UNIT	TOPIC	SUB TOPIC	
		Physical Education	Organizations promoting Disability Sports (Special Olympics, Paralympics, Deaflympics)	
JULY	4	& Sports for CWSN (Children With	Advantage of Physical Activities for children with special needs.	
		Special Needs - Divyang)	Strategies to make Physical Activities assessable for children with special needs.	
			UNIT 2	
			Concept of balance diet and nutrition.	
JULY	5	Sports & Nutrition	Macro and Micronutrients; Food sources & functions.	
			Nutritive & Non-Nutritive Components of Diet.	
AUGUST	6	Test & Measurement In Sports	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 9-18 yrs/class 4-12: BMI, 50mt Speed test, 600 mt 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) Rikli & Jones - Senior Citizen Fitness Test 1. Chair Stand Test for lower body strength 2. Arm Curl Test for upper body strength 3. Chair Sit & Reach Test for lower body flexibility 4. Back Scratch Test for upper body flexibility 5. Eight Foot Up & Go Test for agility 6. Six Minute Walk	
	BLOCK TEST			
CEDTEMPER	7	Physiology 7 & Injuries in Sports	Physiological factor determining component of Physical Fitness	
SEPTEMBER	./		Effect of exercise on Muscular System	
	Sports	Effect of exercise on Cardio - Respiratory System		



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Class XII

PHYSICAL EDUCATION Session: 2022-23

MONTH	UNIT	Contd.		
MUNIH		TUPIC		
SEPTEMBER	7	Physiology & Injuries in Sports	Sports injuries: Classification (Soft Tissue Injuries: (Abrasion, Contusion, Laceration, Incision, Sprain & Strain) Bone & Joint Injuries: (Dislocation, Fractures: Green Stick, Comminuted, Transverse Oblique & Impacted).	
			Newton's Law of Motion & its application in sports	
		Newton's Law of Motion & its	Equilibrium - Dynamic & Static and Centre of Gravity and its application in sports	
OCT - NOV DEC	8	Application in Sports	Friction & Sports	
		Biomechanics & Sports	Projectile in Sports.	
		Psychology & Sports	Personality; its definition & types (Jung Classification & Big Five Theory)	
	9		Meaning, Concept & Types of Aggressions in Sports	
			Psychological Attributes in Sports - Self Esteem, Mental Imagery, Self-Talk, Goal setting	
OCT - NOV DEC			Concept of Talent Identification and Talent Development in Sports.	
10	10	Training In	Introduction to Sports Training cycle - Micro, Meso, Macro Cycle.	
	TU	Sports	Types and Method to Develop - Strength, Endurance, and Speed	
		Type and Method to Develop - Flexibility and Coordinative Ability.		
DECEMBER	PREBOARD			



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