

A New Generation Sr. Sec. School | Affiliated to CBSE Sector 21, Panchkula - 134 112 (Haryana)

Class- XII (Science) Syllabus for the Session 2025-26 English

	Months	Content	Learning Outcomes
		Chapter No. 1:	Students will be able to:
		The Last Lesson (prose),	Remember: The theme and message and traits of Franz and
		Flamingo	M.Hamel
			Understand: The importance of one's own language, emotions state of M. Hamel
			Apply: Linguistic chauvinism and love for one's language in real life situation
			Analyze: The importance of a teacher in the life of a student
		Chapter No.2:	Students will be able to:
		The Lost Spring(prose),	Remember: Traits of Sahib and Mukesh, theme and message
		Flamingo	the chapter
		5/	Understand: Harsh realities of slum children, importance
		9/	childhood and those traditions that condemn slum children to a l
		9	of exploitation
			Apply: The gained knowledge and understanding of characte
			situation into real life situation and be empathetic
		The second	Analyze: The circumstances and situation of both the protagoni
		90	and that society and political class only add to the sufferings of the
			slum and poor children
<u>-</u>	March - April	Chapter No.:	Students will be able to:
ı erm -ı	&	My Mother at Sixty Six	Remember: Theme, message and central idea of the poem
Ĭ	May	(Poem) Flamingo	Understand: Poetic devices used in the poem and that aging and death is inevitable
			Apply: The gained knowledge in cherishing the moments spe
			with loved ones and importance of living in present
			Analyze: The emotions and fear of losing the mother, bonding
			between mother- daughter, nostagic childhood memories
		Chapter No.:	Students will be able to:
		Keeping Quit	Remember: Theme, message and central idea of the poem
		(Poem)Flamingo	Understand: Poetic devices used, interpretation, importance
			introspection
			Apply: Introspection, brotherhood, process of healing and nature being the supreme teacher in real life
			Analyze: The power of introspection and global brotherhood
		Chapter No 1:	Students will be able to:
		The Third Level (Prose)	Remember: The setting of the chapter, the chronological events
		Vistas	of the story
		, 1000	Understand: Psychological impact of world wars on people and
			concept of escapism through Charlie
			Apply: The gained knowledge through Charlie and San
			character in understanding people's mental situation

		Analyze: Charlie's personality and impact of grandfather, pre and post world war situations, in shaping his personality
	Chapter No.2:	Students will be able to:
	Chapter 1vo.2.	Remember: Pre independence era of royal families, theme and
	The Tiger King (Prose)	message of the chapter
	Vistas	
		Understand: The character traits of the King, his motto of life and
		impact of prophecy in king's life
		Apply: The gained knowledge in real life situation and how the
		king lived and died just to challenge prient's prophecy
		Analyze: The character sketch of the king and his minister
	Chapter No.3:	Students will be able to:
	Deep Water (Prose),	Remember: Autobiographical element of the author, theme,
	Flamingo	message and the chronological events of the chapter in detail
		Understand: That childhood fears must never be treated lightly, if
		not tackled properly they make deep inroads in one's phycology
		Apply: The instances in real life and overcome any hesitation or
		fear and success can be achieved at point of time in the life
		(Douglas)
		Analyze: The situation of Douglas underwater and his attempts to
		come on the surface
	Chapter No.	Students will be able to:
		Remember: The theme and message of the poem
	A Thing of Beauty (poem)	Understand: The healing power of Nature and that it always give
	Flamingo	solace
		Apply: The contextual knowledge of the poem in the real life
	5	situation and living a worthy life
	0	Analyze: The importance of Nature and the bounties we have
	Chapter No.3:	Students will be able to:
	Chapter No.3.	Remember: The geological events during Gondwana land, flaura
	Journey to the End of the	and fauna of that time
	Earth(Prose) Vistas	Understand: The importance of Antarctica region for the existence
	701	
		of human beings
		Apply: The information of the chapter in preserving and
		conserving polar regions to ultimately preserving Earth
		Analyze: The grave situation of climate impact and immediate
	****	steps to be taken by us
	Writing Skills:	Students will be able to:
	Notice and Job	Remember: The format and structure
	Application with resume	Understand: The question to get the sender, receiver, and identify
	and Letter to the Editor	effective and non effective elements
	and Detter to the Daitor	Apply: Writing skills in real life scenario for effective
		communication
		Analyze: The appropriate use of language
June		PERIODIC TEST-I
		Students will be able to:
		Remember: The chronological events of the fairytale story and
	Chapter No. 4:	traits of all the characters
	The Rattrap (Prose)	Understand: The metaphorical representation of rattrap
	Flamingo	Apply: The message and the moral of the story in real life;
	1	convincing power
		Analyze: The fact that every human being has an essential
		goodness that can be awakened through understanding and love
	Chapter No. 5:	Students will be able to:
	Indigo (prose) Flamingo	Remember: political and social scenario(Bristish,
	murgo (prose) Framingo	remember. ponucai and sociai scenario(bristisn,

		shows are well along all are site
		sharecroppers),chronological events Understand: Gandhian philosophy, nonviolence, justice for
		opressed
		Apply: that every movement can be made people's movement if
		there is unbreakable trust and faith.
		Analyze: valuing the contribution of ordinary people in the
		freedom struggle
		Students will be able to:
	Chapter No.6:	Remember: the theme message and traits of the Subbu
	Poets and Pancakes	Understand: the structure of the chapter, and that the course of
July	(prose) Flamingo	the events is not in a storyline
&		Apply: To get the glimpses of office politics prevailing at every
August		work place and learn to avoid it do your work sincerly
		Analyze: The various personalities in the chapter and that it's a
		small world
		Students will be able to:
	Chapter No.4:	Remember: The theme message and traits of the Dr. Sadao
	The Enemy (Prose) Vistas	Understand: The difference between a responsible cititen, true
	The Enemy (110se) vistas	patriot and an ethical professionalist
		Apply: Personal and professional ethics are different but
		sometimes you have to rise above all as a human being
		Analyze: That choices shape us as an individual
		Students will be able to:
	Chapter No 5.:	
	On the Face of It (Prose)	Remember: The characterestics of Derry and Lamb
	Vistas	Understand: The pain of physical handicapped is far less than the
	0/	sense of of alienation they feel and society can help
	9	Apply: Being mindful and give space, opportunities, love, care
		to disabled people to help in their inclusion
		Analyze: The pain, agonyand challenges faced by disabled people
	Chapter No.:	Students will be able to:
	A Roadside Stand (poem)	Remember: Idea, theme and message of the poem
	Flamingo	Understand: The social division- poor and rich people
	1 mining	Apply: the empathetic behaviour with others but not to involve to
		the extent wherein you suffer at the end
	2	Analyze: The easy lives of city dwellers and hardships in the lives
		of rural people
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August		PERIODIC TEST-2
		Students will be able to:
	Chapter No. 7:	Remember: The various definations of Interviews given by
	The Inerview (Prose)	different poets
	Flamingo	Understand: The conversation and interview pattern
		Apply: The art of framing good questions to get the desirable
		answer and make people confortable with your communication
		skills
		Analyze: The challenges faced by reporters or meia people
		, are the enumeringes made of reporters of meta people
September	D	EVISION & TERM-I EXAMINATION
	, ,	ETIDION & TERRIT EMARITATION

Physics

Book l	Prescribed: NCE	RT	
	Months	Content	Learning Outcomes
Term -1	March - April & May	Chapter 1: Electric Charges and Fields Chapter 2: Electrostatic Potential and Capacitance Chapter 3: Current Electricity Chapter 4: Moving Charges and Magnetism	Students will be able to: Remember: Electric charge, Coulomb's law, conservation of charge Understand: The principle of superposition, concept of electric field, field lines, and continuous charge distribution Apply: Gauss's theorem to calculate the electric field due to various symmetrical charge distributions Analyze: The behaviour of electric field lines in different situations Students will be able to: Remember: Electric potential, potential difference, and capacitance Understand: Potential due to point charge, dipole, and system of charges; equipotential surfaces Apply: The gained knowledge to solve numerical problems on capacitors with/without dielectric Analyze: Electric potential energy of charge systems Students will be able to: Remember: Ohm's law, resistivity, conductivity Understand: Drift velocity, mobility, V-I characteristics Apply: Kirchhoff's rules and solve circuit problems, calculate power and energy Analyze: Internal resistance and temperature dependence of resistors Remember: Oersted's experiment, Biot-Savart law, Ampere's law. Understand: Magnetic field concepts and force on moving charges. Apply: Concept of magnetic field for solenoids, circular loops, and current-carrying conductors. Analyze: Current loop as a magnetic dipole and torque on loop and functioning of galvanometer and its conversion into ammeter and voltmeter
	June	PERIODIC TEST-I	
	July &	Chapter 5: Magnetism and Matter	Students will be able to: Remember: Key terms Magnetic dipole and magnetization Understand: The concept of field lines and temperature dependence Apply: Concept of torque on dipole and field due to bar magnet Analyze: Magnetization behaviour of Dia-, para-, ferro-magnetic materials
	August	Chapter 6: Electromagnetic Induction	Remember: Define electromagnetic induction, Faraday's and Lenz's Laws Understand: Concepts of induced emf, current, self and mutual induction. Apply: Concepts of induced emf and magnetic flux to solve numerical problems

	1	Analyzas Variations of induced agreement in different actings and
		Analyze: Variations of induced current in different settings and construct real-life models illustrating electromagnetic induction
	Charten 7:	Students will be able to:
	Chapter 7:	
	Alternating Current	Remember: Key points as alternating current, peak and RMS
		values
		Understand: The concept of impedance, reactance, resonance
		Apply: The gained knowledge to use phasor diagrams and
		formulas in LCR circuit analysis
		Analyze: Power factor and wattless current scenarios
	Chapter No. 8:	Students will be able to:
	Electromagnetic Waves	Remember: The identification of EM spectrum types and uses
		Understand : The concept of displacement current, transverse
		wave nature
		Apply: The gained knowledge to match spectrum with
		applications in real world
		Analyze: Properties of EM radiation and assess spectrum ranges
		for medical and technical uses
August		PERIODIC TEST-2
	Chapter No. 12:	Students will be able to:
	Atoms	Remember: Alpha particles, structure of the atom, and energy
		levels
		Understand: Rutherford's experiment and Bohr's model
	9	Apply: The gained knowledge to use the expressions for radius,
	2/	velocity, and energy of an electron in the nth orbit
	0/	Analyze: Hydrogen spectra using Bohr's theory
	Chapter No. 13:	Students will be able to:
	Nuclei	Remember: Nuclear structure, fission, and fusion
		Understand: Mass-energy relation, mass defect, and binding
		energy
	190.	Apply: The concepts of $E = mc^2$, mass defect and binding energy
	The state of the s	formula to solve problems
		Analyze: Binding energy curve and its implications and the role of
		nuclear forces
September	REVI	ISION & TERM-I EXAMINATION

Chemistry

Book l	Book Prescribed: NCERT		
	Months	Content	Learning Outcomes
Term -1	March - April & May	Chapter No. 1: Solutions Chapter No. :2: Electrochemistry	Students will be able to: Remember: The types of solutions and concentration terms Understand: Raoult's law and colligative properties Apply: The knowledge to solve numerical problems on molarity and depression in freezing point Analyse: Deviations from ideal behaviour Students will be able to: Remember: The concept of oxidation, reduction, and cell terminology Understand: The working of galvanic and electrolytic cells Apply: The knowledge to calculate EMF and use Nernst equation. Analyse: Standard electrode potentials to predict reactions

	Chapter No. 3:	Students will be able to:
	Chemical Kinetics	Remember: The rate of reaction and related terms
		Understand: Rate laws and order of reactions
		Apply: The knowledge to solve numerical using integrated rate
		equations
		Analyse: Graphs and reaction mechanisms
June	I	PERIODIC TEST-I
	Chapter No. 4:	Students will be able to:
	The d- and f- Block	Remember: The list of d- and f-block elements and their positions
	Elements	Understand: The properties like variable oxidation states and
		color
		Apply: The identification of trends across the series and predict reactions
		Analyze: The transition and inner transition elements
	Chapter No. 5:	Students will be able to:
	Coordination Compounds	Remember: Define ligands, coordination number, and complex
July	r i i i i i i i i i i i i i i i i i i i	compounds.
&		Understand: Explain IUPAC naming and bonding in complexes.
August		Apply: Write formulas and structures of coordination compounds.
		Analyze: Differentiate isomers and predict stability.
	Chapter No. 6:	Students will be able to:
	Haloalkanes and	Remember: The definitions haloalkanes, haloarenes, and their
	Haloarenes	types
	3/	Understand: The physical properties and nature of C–X bond
	0/	Apply: The prediction of products of nucleophilic substitution
		reactions
		Analyze: The reactivity of different halogen compounds
August		PERIODIC TEST-2
	Chapter No. 7:	Students will be able to:
	Alcohols, Phenols and	Remember: The classification assify alcohols, phenols, and
	Ethers	ethers
		Understand: The preparation and properties of compounds
		Apply: The prediction products of dehydration and substitution.
		Analyze: The acidity and reactivity across the group
September	R	EVISION & TERM-I EXAMINATION

Biology

Book	Prescribed: NCE	RT	
	Months	Content	Learning Outcomes
		Chapter No. 1;	Students will be able to:
		Sexual reproduction in	Remember: The structure of stamen, pistil .and different types of
		flowering plants	pollination, : autogamy, geitonogamy, xenogamy
7	March - April		Understand: The structure of T.S. anther, anatropous ovule,
Term	&		process of microsporogenesis, megasporogenesis, artificial
Te	May		hybridization, double fertilization, post-fertilization events,
			apomixis, parthenocarpy and polyembryony
			Apply: The gained knowledge to prepare temporary slide of pollen
			germination and to understand plant breeding and crop

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		improvement
		Analyze: The different types of pollination with their advantages
		and evaluate the role of artificial hybridization in plant breeding
	Chapter No. 2:	Students will be able to:
	Human reproduction	Remember: The male and female reproductive systems, the role of
		their primary sex organs, accessory glands, accessory ducts and
		external genitilia
		Understand: The processes of spermatogenesis, oogenesis,
		mentrual cycle, fertilization, implantation and parturition
		Apply: The gained knowledge to identify slides of T.S. testis, T.S.
		ovaries and T.S. blastula and understand reproductive health and
		fertility
		Analyze: The difference between spermatogenesis and oogenesis.
		and the importance of reproductive health in maintaining overall
		health
	Chapter No. 3:	Students will be able to:
	Reproductive health	Remember: The meaning of reproductive health, problems faced
	Tropi sousti i suutii	and strategies to solve reproductive health problems
		Understand: The different methods of contraception, MTP,
		causes, symptoms, and treatment of STIs, and methods to have
		children like IVF, ZIFT, GIFT, IUT, ICSI, AI, IUI
		Apply: The gained knowledge of reproductive health to
	1 0	understand the impact of reproductive health issues on individuals and communities
	2/	Analyze: The impact of reproductive health issues on individuals
	0/	and communities and evaluate the importance of reproductive
	0	health education and awareness
	Chapter No. 4:	Students will be able to:
	Principles of Inheritance	Remember: The definition of inheritance and variation and
	and Variation	Mendel's laws of inheritance
	401	Understand: The monohybrid and dihybrid crosses, evaluate
		phenotypic and genotypic ratio in different generations,
		incomplete dominance, co-dominance, sex- determination, genetic
		and chromosomal disorders
		Apply: The gained knowledge to predict the probability of
		different genotypes and phenotypes and to understand the
		inheritance of traits in humans
		Analyze: The different inheritance patterns and the impact of
		genetic variation on evolution and adaptation
	Chapter No.5:	Students will be able to:
	Molecular Basis of	Remember: The structure and function of DNA and RNA
	Inheritance	Understand: The molecular mechanisms of DNA replication,
		Transcription and Translation, Genetic code, mutations, goals and objectives of Human Genome project, Regulation of gene
		expression- lac operon, DNA fingerprinting
		Apply: The gained knowledge of DNA structure and replication
		to understand genetic inheritance
		Analyze: The impact of genetic mutations on gene expression and
		protein function
June	p	PERIODIC TEST-I
July	Chapter No.6:	Students will be able to:
& &	•	Remember: The meaning evolution and its significance in
August	Evolution	biology.
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	Charter N. 7	Understand: The Miller's experiment, homologous and analogous organs, Hardy-Weinberg principle, adaptive radiation, natural selection and human evolution. Apply: The gained knowledge of evolutionary principles to understand the adaptation of organisms to their environments and the evolutionary relationships between organisms. Analyze: Different theories of evolution and evaluate The importance of evolution in understanding the complexity of life on Earth.
	Chapter No.7: Human Health and diseases	Remember: The different organisms causing diseases in humans with their symptoms. Understand: The difference between innate, acquired immunity, active, passive immunity, autoimmunity; the structure and function of antibody; Lymphoid organs, types, causes, diagnosis and treatment for Cancer, AIDS and the effects of different types of
	Chapter No.8:	drugs on our body in detail. Apply:The gained knowledge to understand the importance of early detection and treatment. Analyze:The impact of lifestyle choices on human health and the importance of immunization in preventing diseases. Students will be able to: Remember:The different types of microbes and their roles in
	Microbes in Human Welfare	human welfare Understand: The use of different microbes in industrial fermentation, household, sewage treatment, biogas production,, as biocontrol agents, as fertilizers, as chemicals, enzymes and bioactive molecules Apply: The gained knowledge to understand their role in food production and preservation, its applications in various industries and their importance in environmental management. Analyze: The different types of microbes and their applications and their impact of microbes on human health and the environment.
	Chapter No.9: Biotechnology-Principles and Variation	Students will be able to: Remember: The definition of key terms related to biotechnology, like Genetic engineering, Bioprocess engineering, Recombinant DNA technology, structure of DNA and its function Understand: The process of recombinant DNA technology, separation by gel electrophoresis, cloning vectors, amplification of gene of interest using PCR, upscaling by the use of Bioreactors and processing of gene products. Apply: The gained knowledge of biotechnology to understand its applications in various industries and evaluate its impact on society and the environment. Analyze: The different biotechnology applications and their potential benefits and risks.
August	Chapter No. 10: Biotechnology and its applications	PERIODIC TEST-2 Students will be able to: Remember: The concept of Genetic engineering, Recombinant DNA technology and the applications of biotechnology in various fields like medicine, agriculture, industry. Understand: Explain the applications of biotechnology in
		production of insulin, gene therapy; genetically modified

	organisms and plants, concept of RNA interference, transgenes,
	cry genes, biopiracy and biosafety.
	Apply: The gained knowledge Use knowledge of genetic
	engineering to understand its potential applications in medicine,
	agriculture, and industry and develop solutions to real-world
	problems.
	Analyze: The impact of biotechnology on society and the
	environment.and evaluate the ethics of biotechnology applications
	and their potential consequences.
September	REVISION & TERM-I EXAMINATION

Mathematics(041)

	Months	Content	Learning Outcomes
		Chapter No.	Students will be able to:
		Matrices	Remember: The concept of matrices, Operations on matrices and
			its types: zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices
			Understand: The properties of addition, multiplication of
			matrices and scalar multiplication
			Apply: Addition and multiplication of matrices and scalar
		0/	multiplication to real life problems
		0	Analyze: Non- 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
		1	proof of the uniqueness of inverse, if it exists
		Chapter No.	Students will be able to:
		Determinants	Remember: The key terms: Determinant of a square matrix,
			minors and co-factors
	March - April		Understand: The method of finding the adjoin and inverse of a
			square matrix and number of solutions of system of linear
I-I			equations; Consistency and inconsistency of solutions
TERM-I	&		Apply: The acquired knowledge to solve the system of linear
Ĭ	May		equations in two or three variables (having unique solution) using
			inverse of a matrix
			Analyze: Adjoin and inverse of a square matrix.
		Chapter No.	Students will be able to:
		Relations and Functions	Remember: Types of relations: reflexive, symmetric, transitive
			and equivalence relations
			Understand: Equivalence relations and Bijective mappings
			Apply:
			Apply: The gained knowledge to identify Equivalence relations
			and Bijective mappings
		Chantan No	Analyze: Different types of relations and functions
		Chapter No.	Students will be able to: Remember: Investe trigonometric functions their domain and
		Inverse Trigonometric	Remember: Inverse trigonometric functions, their domain and
		Functions	range Understand: The concept of Inverse Trigonometric Functions and
			their relationship to trigonometric functions
			Apply: The gained knowledge to solve problems in trigonometry
			and geometry

		Analyze: The restrictions on the domain and range of inverse
		trigonometric functions
June		PERIODIC TEST-I
	Chapter No 5.: Continuity and differentiability	Students will be able to: Remember: The concept of continuity and differentiability, charule, derivative of composite functions, derivatives of inverse trigonometric functions Understand: Derivative of implicit functions and the concept exponential and logarithmic functions Apply: Differentiation rules to find derivatives of function including Trigonometric functions, Exponential and logarithm functions, Composite functions Analyze: Functions for continuity and differentiability ar
		identifying points of discontinuity
	Chapter No:6	Students will be able to:
	Application of derivatives	Remember: Key terms as rate of change, increasing a decreasing, maxima and minima Understand: The concept of rate of change and its relation
July &		derivatives and the use of derivatives in finding maxima a minima
August	100	Apply:The gained knowledge of derivatives to find equations tangent and normal lines, and intervals of increasing a decreasing functions Analyze: Various functions using derivatives to identify- Critic
	0/	points, Maxima and minima, Intervals of concavity
August	Do	PERIODIC TEST-2
	Chapter No:7	Students will be able to:
	Integrals:(Indefinite	Remember: Key terms related to integration (indefinite integral
	Integration)	definite integral)
		Understand: Integration as inverse process of differentiation Apply: The gained knowledge to solve problems of Integration
		variety of functions by substitution method, partial fractions an
		integration by parts Analyze: Different integration techniques and their applications
September	REVI	SION & TERM-I EXAMINATION

Computer Science

Book	Book Prescribed: Computer Science with Python (Sumita Arora - Dhanpat Rai Pub.)		
	Months	Content	Learning Outcomes
		Chapter No. 8:	Students will be able to:
		Computer network- I	Remember: Fundamentals requirements and application of
		•	Networking
n -I	March - April		Understand: Explain how data is transferred in a network.
Term	& May		Apply: Demonstrate how to connect computers in a simple
I	May		network.
			Analyze: Compare advantages and disadvantages of different
			network topologies.

	Chapter No. 9: Computer network- II	Students will be able to: Remember: Define networking devices such as router, switch, hub, modem, etc Understand: Illustrate how a basic network setup works. Apply: Apply appropriate protocols for specific network tasks (e.g., using FTP to transfer files).Set up a basic wireless network using a router and wireless devices. Analyze: Evaluate the suitability of various network protocols.
	Chapter No. 1: Python Revision Tour -I	Students will be able to: Remember: Token, Flow of control and looping statements Understand: Describe the difference between entry-controlled & count-controlled loops, use of break and continue within loops and execution flow of conditional statements. Apply: Solve simple real-life problems using loops. Analyze: Debug and correct logic errors in programs involving loops or conditions. Trace the flow of execution in nested conditional or looping structures.
	Chapter No. 2: Python Revision Tour -II	Students will be able to: Remember: List, Tuple, strings, tuples, and dictionaries in Python and built-in functions. Understand: Explain how dictionaries store data in key-value pairs. Python code that uses loops to access elements in lists, tuples, or dictionaries. Apply: Python programs to perform basic operations (add, delete, modify) on lists, tuples, and dictionaries. Analyze: A given piece of code and predict the output or detect logical errors.
June	8	PERIODIC TEST-I
	Chapter No. 3: Working with Function	Remember: key terms related to functions such as function, parameter, argument, return value, etc. List different types of functions (e.g., built-in vs. user-defined).Recall the syntax for defining and calling a function in a programming language (e.g., Python, Java). Understand: how parameters and arguments work in function calls. Apply: Write simple functions to perform specific tasks (e.g., add two numbers, check even/odd, calculate area) Analyze: Identify errors or issues in function definitions or function calls. Break a complex problem into smaller sub-problems using functions.
July & August	Chapter No. 4: Using Python Libraries	Students will be able to: Remember: What a Python library or module is. Recall common libraries such as math, random, and date time. Understand: Purpose of using libraries in Python programming. Apply: Use specific functions from libraries to solve problems (e.g., generating random numbers, performing mathematical calculations). Write simple programs using multiple library functions together. Analyze: Examine code to determine how library functions are being used.
	Chapter No. 10; Relational Databases	Students will be able to: Remember: key terms such as database, table, record, field, primary key, and foreign key. List common relational database management systems (RDBMS), e.g., MySQL, SQLite, PostgreSQL. Recall SQL commands like SELECT, INSERT, UPDATE, DELETE. Understand: Explain the structure of a relational database and how data is stored in tables. Apply: Create and modify simple relational database tables using

September		REVISION & TERM-I EXAMINATION
August		PERIODIC TEST-2
	Chapter No. 13: Grouping Records, Joins in SQL	Students will be able to: Remember: The purpose of GROUP BY, HAVING, and different types of SQL joins (INNER, LEFT, RIGHT, FULL). Understand: Interpret the difference between WHERE and HAVING clauses. Distinguish among the various types of joins and when to use each. Interpret the results of grouped queries and joined tables. Apply: Solve real-life problems involving data summarization and table relationships. Analyze: Meaning of query performance and optimize SQL statements for better results.
	Chapter No. 11; Simple Queries in SQL	Remember: List basic SQL commands (e.g., SELECT, FROM, WHERE, ORDER BY, DISTINCT) Understand: Explain how the SELECT statement retrieves data from a database Apply: Write basic SQL queries to retrieve specific data from a table. Analyze: Conditions in WHERE clause to filter results appropriately.
	Chapter No. 12; Table Creation and data manipulation Commands	SQL. Write and execute SQL queries to insert, retrieve, and manipulate data. Use primary keys and foreign keys to define relationships between tables. Analyze: Identify the relationship type (one-to-one, one-to-many, many-to-many) between tables. Students will be able to: Remember: SQL and its purpose. List common Data Definition Language (DDL) and Data Manipulation Language (DML) commands. Interpret the syntax of commands like CREATE TABLE, INSERT, UPDATE, DELETE, and SELECT. Understand: the difference between DDL and DML. Apply: Retrieve data using the SELECT command with different clauses (e.g., WHERE, ORDER BY). Analyze: The impact of constraints like PRIMARY KEY, NOT NULL, and UNIQUE on data integrity.

Physical Education

Bool	Book Prescribed: S.P Book			
	Months	Content	Learning Outcomes	
Term -I	March - April & May	UNIT-1 Management of sporting events	Remember: Key terms related to event management; Recall different types of sporting events and the stages of event planning Understand: The principles of event management within the context of sports and connection between sport, culture, and community development through events Apply: The gained knowledge to use management principles to design an organizational chart for a sports event; apply risk management techniques to real-life sports scenarios Analyze: The effectiveness of past sporting events in terms of logistics, audience engagement, and media coverage and identify challenges in managing sporting events and propose solutions	

	UNIT-2	Students will be able to:
		Remember: Policies and programs that support children and
	Children and Women in	women in sports and define key terms related to gender equity
	Sports	and youth participation in sports
		Understand : The physical, psychological, and social benefits of
		sports for children and women and the developmental
		considerations in training children in sports
		Apply: Gained knowledge to design a basic training schedule tailored for children or female athletes and apply principles of
		inclusivity and safety in planning physical activities
		Analyze: The impact of social, cultural, and economic factors on
		women's involvement in sports and evaluate the effectiveness of
		government policies or school programs promoting sports
		among children and women
	UNIT-10	Students will be able to:
	Training in sports	Remember: The concept of term training in the context of
	Training in sports	sports, different types of training and basic training principles
		Understand: The objectives and importance of training in
		enhancing sports performance and the role of warm-up, cool-
		down, and recovery in training sessions
		Apply: The gained knowledge to design a basic weekly training
		plan for an athlete in a specific sport and demonstrate proper
		techniques for basic strength or endurance exercises
		Analyze: The common training errors or injuries, the training
		needs of athletes from different sports and the effectiveness of a
		given training plan using performance outcomes.
June	- S	PERIODIC TEST-I
	UNIT-4	Students will be able to:
	Physical education and	Remember: Meaning of CWSN and Divyang, list types of
	sports for CWSN	disabilities, recall organizations like Paralympics and Special
	(Children with special	Olympics, and name adapted sports for CWSN.
	needs -divyang)	Understand: The importance of inclusion in sports for CWSN,
	190	describe physical activity benefits, understand adapted education
		needs, and recognize the roles of schools, teachers, and families. Apply: Inclusive activities for children of all abilities, modify
		games for accessibility, demonstrate empathy and support, and
		promote team spirit and acceptance in integrated classes.
		Analyze: Compare traditional and inclusive physical education,
		analyze barriers for CWSN, evaluate adapted sports' role in
		inclusion, and reflect on successful CWSN athletes and
		programs.
	UNIT-5	Students will be able to:
July	Sports and Nutrition	Remember: Meaning of nutrition and its role in sports, list
&		essential nutrients and their sources, explain hydration
August		importance, and identify common dietary supplements used by athletes.
		Understand: How nutrition affects athletic performance,
		detailing how carbohydrates, proteins, fats, and hydration
		support energy, muscle repair, endurance, and recovery through
		support energy, muscle repair, endurance, and recovery unough
		a balanced diet.
		a balanced diet. Apply: Tailored nutritional and hydration plans for athletes,
		a balanced diet. Apply: Tailored nutritional and hydration plans for athletes, adjusting dietary strategies and supplements to support
		a balanced diet. Apply: Tailored nutritional and hydration plans for athletes, adjusting dietary strategies and supplements to support performance goals before, during, and after exercise.
		a balanced diet. Apply: Tailored nutritional and hydration plans for athletes, adjusting dietary strategies and supplements to support performance goals before, during, and after exercise. Analyze: Compare sports nutrition strategies, evaluate poor
		a balanced diet. Apply: Tailored nutritional and hydration plans for athletes, adjusting dietary strategies and supplements to support performance goals before, during, and after exercise. Analyze: Compare sports nutrition strategies, evaluate poor nutrition's impact, analyze diet adjustments for training and
	UNIT-6	a balanced diet. Apply: Tailored nutritional and hydration plans for athletes, adjusting dietary strategies and supplements to support performance goals before, during, and after exercise. Analyze: Compare sports nutrition strategies, evaluate poor nutrition's impact, analyze diet adjustments for training and recovery, and assess risks and benefits of dietary supplements.
	UNIT-6 Test and measurement in	a balanced diet. Apply: Tailored nutritional and hydration plans for athletes, adjusting dietary strategies and supplements to support performance goals before, during, and after exercise. Analyze: Compare sports nutrition strategies, evaluate poor nutrition's impact, analyze diet adjustments for training and recovery, and assess risks and benefits of dietary supplements. Students will be able to:
	Test and measurement in	a balanced diet. Apply: Tailored nutritional and hydration plans for athletes, adjusting dietary strategies and supplements to support performance goals before, during, and after exercise. Analyze: Compare sports nutrition strategies, evaluate poor nutrition's impact, analyze diet adjustments for training and recovery, and assess risks and benefits of dietary supplements.
		a balanced diet. Apply: Tailored nutritional and hydration plans for athletes, adjusting dietary strategies and supplements to support performance goals before, during, and after exercise. Analyze: Compare sports nutrition strategies, evaluate poor nutrition's impact, analyze diet adjustments for training and recovery, and assess risks and benefits of dietary supplements. Students will be able to: Remember: Meaning of test, measurement, and evaluation in

	T	
		Understand: The purpose of fitness and skill tests, how results
		assess strengths and weaknesses, understand test validity and
		reliability, and interpret scores against standards.
		Apply: The fitness tests following proper methods and
		protocols, accurately record and evaluate results. Use test
		outcomes to design or modify training programs with techniques
		suited to the sport or goal.
		Analyze: Compare results of different tests to evaluate overall
		fitness and analyze their relation to sports performance. Evaluate
		test suitability for particular sports or groups and identify factors
		influencing test outcomes.
	UNIT-7	Students will be able to:
	Physiology and injuries	Remember: Meaning of physiology, sports injuries, and key
	in sports	terms, and list major injury types such as soft tissue, hard tissue,
		and overuse injuries. Recall body systems involved in physical
		activity and identify basic first aid principles for common sports
		injuries.
		Understand: The physiological responses to exercise and
		understand the causes and symptoms of different types of
		injuries. Describe the body's recovery process and the
		importance of preventive measures such as warm-ups, cool-
		downs, and proper technique
		Apply: First aid techniques for minor injuries and demonstrate
		warm-up and cool-down exercises to prevent injuries. Use
		knowledge of body systems to manage fatigue and recovery, and
		recommend safe practices and equipment to minimize injury
		risk.
	The state of the s	Analyze: Compare acute versus chronic injuries and their effects
	5/	on performance. Analyze causes such as improper technique and
	0/	overtraining, evaluate physiological impacts on body systems,
		and assess injury-prone areas in sports with risk reduction
		suggestions.
August		PERIODIC TEST-2
September	R	EVISION & TERM-I EXAMINATION

Early Childhood Care and Education

Book	Book Prescribed: NCERT			
	Months	Content	Learning Outcomes	
		Unit I	Students will be able to:	
		Communication Skills	Remember: The key components of effective communication Understand: The process and importance of communication	
ŀ	March - April		skills Apply: Active listening and use appropriate communication techniques in group discussions Analyze: Real-life scenarios to identify communication gaps and suggest improvements	
rim:	&	Unit I	Students will be able to:	
Term	May	Foundations of Child	Remember: Important terms such as growth, maturation, and development	
		Development	Understand: The major factors influencing child development (heredity, environment, nutrition, etc.) Apply: The acquired knowledge to observe and record child behavior to identify developmental milestones.	
			behavior to identify developmental milestones Analyze: Case studies to identify delays or advancements in development	

	Unit: II	Students will be able to: Remember: The meaning of terms like self-discipline,
	Self-Management Skills	punctuality, self-motivation, and organizational skills. Understand: How good self-management influences a caregiver's efficiency, behavior, and relationships with children, parents, and colleagues Apply: Self-motivation and goal-setting skills while planning a class activity or maintaining a routine Analyze: How poor self-management may affect classroom behavior, children's learning, or teamwork
June		PERIODIC TEST-I
	Unit II Educational Thought of Key Theorists and Pioneers	Students will be able to: Remember: key theorists & pioneers educational ideas with the respective pioneers. Understand: The core principles of each theorist's approach to early childhood education. Apply: the teachings of Indian pioneers (like Gandhi or Gijubhai) in organizing culturally relevant learning experiences.
	Unit III :	Analyze: The relevance of each theorist's philosophy in today's early childhood care system. Students will be able to:
July	Ch- Developmentally Appropriate Activities for Holistic Development	Remember: the key domains of development (physical, cognitive, social, emotional, and language). Understand: the concept of holistic development and different areas of a child's growth. Apply: a simple activity plan targeting one or more developmental domains. Analyze: different activities based on the developmental needs they fulfill.
& August	Unit IV: Ch-Fostering Socio Emotional Competence in Children	Students will be able to: Remember: the key components of socio-emotional competence (e.g., self-awareness, empathy, emotional regulation, social skills). Understand: the importance of socio-emotional development in early years. Apply: techniques like positive reinforcement, emotion labeling, and active listening in real or simulated classroom settings. Analyze: the effectiveness of different classroom strategies for fostering emotional well-being.
	Unit III : ICT Skills	Students will be able to: Remember: basic ICT tools and terms (e.g., hardware, software, internet, email). Understand: the function of different ICT tools like MS Word, Excel, and presentation software. Apply: basic formatting tools in word processing software. Analyze: the effectiveness of different ICT tools for specific educational purposes.
August	PERIODIC TEST-2	
September	R	EVISION & TERM-I EXAMINATION

Library & Information Science

Book	Prescribed: CBS		
	Months	Content	Learning Outcomes
	March - April & May	Chapter No.: 1 Communication Skills IV (Employability Skills)	Students will be able to: Remember: The do's and don't of good communication Understand: The importance of good communication to enhance personality Apply: The skill of communication for impactful conversation Analyze: The need of good communication in one's life
		Chapter No. : Library Management	Students will be able to: Remember: The fundamental facts and concepts related to library operations Understand: The concept of library management and stock verification Apply: The gained knowledge in practical or simulated tasks Analyze: The challenges faced in the management of library such as system break down, stock discrepancy and the ways to resolve those Students will be able to:
		Chapter No. : Self- Management Skills-IV	Remember: The basic facts, definitions, and concepts related to self-management Understand: The importance of self motivation and self management Apply: The techniques of self management in daily life situations Analyze: The complex behavior patterns or problems to understand causes and effects
	June	8	PERIODIC TEST-I
TERM-I	July & August	Chapter No.: Organization of Library Resources: Advanced	Students will be able to: Remember: The key concepts and terminology related to organizing library resources. Understand: The purpose and function of organizing systems in libraries. Apply: The knowledge in real-world or simulated cataloging and classification tasks. Analyze: The understanding to break down complex cataloging/classification processes and evaluate them.
		Chapter No. : Library and Information Services	Students will be able to: Remember: Key definitions "reference services," "current awareness service (CAS)," and "selective dissemination of information (SDI)." Understand: The concepts and interpret the purpose of services. Apply: The knowledge in practical scenarios involving information services Analyze: Break down systems/services and evaluate effectiveness.
		Chapter No. : ICT Skills-IV	Remember: Common software applications used in libraries (e.g. Koha, DSpace) Understand: Comprehension of ICT concepts and how tools function Apply: ICT tools and skills to perform tasks or solve problems Analyze: ICT-related processes or systems for better understanding and decision-making.
		Chapter No. : Entrepreneurial Skills-IV	Students will be able to: Remember: The key concepts, definitions, and terminology related to entrepreneurship Understand: The entrepreneurial principles and strategies Apply: The entrepreneurial knowledge in real-life or simulated business scenarios

	Analyze: The components of entrepreneurial practices
August	PERIODIC TEST-2
September	REVISION & TERM-I EXAMINATION

Marketing

	Prescribed: CBS		Looming Outsons
	Months	Charten Name 1	Learning Outcomes
		Chapter No.: 1 Communication Skills IV	Students will be able to: Remember: The delegand depit of good communication
		(Employability Skills)	Remember: The do's and don't of good communication Understand: The importance of good communication to
		(Employability Skills)	enhance personality
			Apply: The skill of communication for impactful conversation
			Analyze: The need of good communication in one's life
		Chapter No. : Self-	Students will be able to:
		Management Skills-IV	Remember: The basic facts, definitions, and concepts related to
			self-management
			Understand: The importance of self motivation and self
			management
			Apply: The techniques of self management in daily life
			situations
			Analyze: The complex behavior patterns or problems to
			understand causes and effects
		Unit - Product	Students will be able to:
			Remember: The definition of product, product mix, and types
			of products; Features of consumer goods and industrial goods;
			Stages of the Product Life Cycle (PLC)
			Understand: The concept and importance of branding,
	March - April		labelling, and packaging; The role of product innovation in
	&		marketing success
	May		Apply: The acquired knowledge to classify real-world products
			into consumer and industrial goods and design a basic product
			portfolio for a new company
			Analyze: The product strategies of two competing brands;
			Reasons behind the success or failure of products and the impact
			of packaging and labelling on consumer choice
I-I	June	(9)	DEDICALCE I
TERM-I			PERIODIC TEST-I
TE		Unit - Price	Students will be able to:
		01	Remember: the definition of price, pricing objectives, and
			strategies. Recall types of pricing methods (Cost-plus,
			Competitive pricing). List factors affecting pricing decisions.
			Understand: how pricing affects market demand and positioning. Differentiation between penetration pricing and
		1 6	skimming pricing. Understand the psychological factors
		70 4	influencing pricing decisions.
			Apply: the gained knowledge to create a pricing plan for an
			imaginary product. Calculate the selling price based on cost and
			desired profit margin. Suggest pricing changes during different
			stages of product life cycle.
			Analyze: Compare success stories based on innovative pricing
	July		strategies. Evaluate how competition affects pricing flexibility.
	&		Analyze the effect of discount pricing on customer loyalty.

		Remember: the definition of channels of distribution. The List of types of intermediaries (Wholesaler, Retailer, Agent). Recall functions of distribution channels. Understand: the importance of physical distribution and logistics. Understand direct vs. indirect selling modes. Differentiate between online and offline distribution methods. Apply: the acquired knowledge to plan for a newly launched product. Identify the most suitable channel for different types of		
		functions of distribution channels. Understand: the importance of physical distribution and logistics. Understand direct vs. indirect selling modes. Differentiate between online and offline distribution methods. Apply: the acquired knowledge to plan for a newly launched		
		Understand: the importance of physical distribution and logistics. Understand direct vs. indirect selling modes. Differentiate between online and offline distribution methods. Apply: the acquired knowledge to plan for a newly launched		
		logistics. Understand direct vs. indirect selling modes. Differentiate between online and offline distribution methods. Apply: the acquired knowledge to plan for a newly launched		
		Differentiate between online and offline distribution methods. Apply: the acquired knowledge to plan for a newly launched		
		Apply: the acquired knowledge to plan for a newly launched		
		product. Identify the most suitable channel for different types of		
		1- Cut fl 1:		
		goods. Create a flow diagram of a supply chain network.		
		Analyze: Compare distribution efficiency between traditional and digital modes. Evaluate logistics cost impact on pricing and		
		profitability.		
		Students will be able to:		
	Chapter No.:	Remember: Common software applications used in libraries		
		(e.g. Koha, DSpace)		
	ICI Skills-IV	Understand: Comprehension of ICT concepts and how tools		
		function		
		Apply: ICT tools and skills to perform tasks or solve problems		
		Analyze: ICT-related processes or systems for better		
		understanding and decision-making.		
August	PERIODIC TEST-2			
September	REVISION & TERM-I EXAMINATION			
	August	August		

Psychology

Book Prescribed: NCERT					
	Months	Content	Learning Outcomes		
		Chapter No. :1 Variations	Students will be able to:		
		in Psychological attributes	Remember: Psychological attributes and theories of intelligence		
		, ,	Understand : The difference between aptitude ,interest and intelligence		
			and interpret the meaning behind IQ scores and standardized testing		
			Apply: The gained knowledge to describe real-life behaviours and		
			understand their own strengths		
			Analyze: How individual differences are shaped by biological as well		
			as environmental influences and how cultural differences affect		
Η.			psychological testing		
TERM-I		Chapter No.: 2 Self and	Students will be able to:		
Ē		Personality	Remember: Concept and definition of self-concept, personality, traits,		
I			types		
			Understand: The difference between self and personality; Components		
			of self (self-esteem, self-efficacy, self-regulation) and the role of		
March - April cultural ar			cultural and social factors in shaping personality		
	&		Apply: The acquired knowledge to use psychological tests to assess		
	May		personality and relate theories to real-life behavior or personal		
			experiences		
			Analyze: The strengths and limitations of personality assessments and		
			how environment and heredity influence personality		

	Chapter No. : 3 Meething life challenges	Students will be able to: Remember: Definitions: stress, coping, resilience; Types of stress: eustress, distress and key concepts: GAS model, stressors, defense mechanisms Understand: Psychological and physiological effects of stress; Role of perception in stress experience Apply: Stress management techniques (meditation, time management, relaxation) and identify personal stressors and coping styles Analyze: The differenence between effective and ineffective coping strategies, and how individual differences (personality, gender, resources) affect stress response	
June	PERIODIC TEST-I		
July & August	Chapter No. : 4 Psychological Disorders	Students will be able to: Remember: Definitions, symptoms, and types of psychological disorders. List classifications from DSM and ICD. Understand: Causes (biological, psychological, socio-cultural) of disorders. Understand the difference between normal and abnormal behavior. Apply: Symptoms in real-life case examples. Use diagnostic criteria to recognize mental health conditions. Analyze: Compare different models of abnormality (medical, psychological). Examine how culture and stigma affect diagnosis and treatment.	
August		PERIODIC TEST-2	
September	REVISION & TERM-I EXAMINATION		

Applied Mathematics (241)

Book Prescribed: NCERT			
	Months	Content	Learning Outcomes
Term -I		Chapter: Matrices	Students will be able to:
			Remember: The concept of matrices, Operations on matrices
			and its types: zero and identity matrix, transpose of a matrix,
			symmetric and skew symmetric matrices
			Understand: The properties of addition, multiplication of
			matrices and scalar multiplication
			Apply: Addition and multiplication of matrices and scalar
			multiplication to real life problems
			Analyze: Non- 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

1	Chapter :Determinants	Students will be able to:		
	Chapter Determinants	Remember: The key terms : Determinant of a square matrix ,		
		minors and co-factors		
		Understand: The method of finding the adjoin and inverse of a square matrix and number of solutions of system of linear		
		equations; Consistency and inconsistency of solutions		
March - April	8	Apply: The acquired knowledge to solve the system of linear		
& &	5/	equations in two or three variables (having unique solution)		
May	2	using inverse of a matrix		
Way	CI Fi I I	Analyze: Adjoint and inverse of a square matrix.		
	Ch-Financial	Students will be able to:		
	Mathematics	Remember: The concept of perpetuity and sinking fund		
	1 10	Understand: The difference between sinking fund and saving		
	401	account and the concept of EMI		
		Apply: The gained knowledge to calculate EMI using various		
		methods and Compound Annual Growth Rate		
		Analyze: Different investment options and the impact of interest		
		rates on investments and loans		
	Chapter No. :Numbers,	Students will be able to:		
	Quantification	Remember: The key terms modulus of an integer, congruence		
	and Numerical	modulo		
	Applications	Understand: The comparison between two statements/situations		
		which can be compared numerically		
		Apply: Modulus and conjugate to simplify complex expressions;		
		the definition in various problems		
	0/	Analyze: The appropriateness of numerical methods for specific		
	61	problems		
June		THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SE		
Suite		PERIODIC TEST-I		
	Chapter:	Students will be able to:		
	Differentiation	Remember: Derivatives up to first order		
July	and its	Understand: Differentiation of parametric functions and		
& &	Applications	implicit functions up to second order		
August		Apply: The gained knowledge to solve simple problems related		
Tagust		to increasing and decreasing behaviour of a function in the given		
		interval. and find local maxima and local minima		
		Analyze: The difference between marginal cost and marginal		
		revenue		
	Chapter:	Students will be able to:		
	Linear	Remember: Definition of Decision Variable, Constraints,		
	Programming	Objective function, Optimization and Non negative constraints		
		Understand: The problem in terms of in equations		
		Apply: Corner Point Method for the Optimal solution of LPP		
		Analyze: Feasible and infeasible solutions		
	Chapter:	Students will be able to:		
	Time-based	Remember: Time series as chronological data		
	data	Understand: Long-term tendency		
		Apply: The gained knowledge to demonstrate the techniques of		
		finding trend by different methods		
		Analyze: Fitting a Straight-line trend and estimating the value		
Awarat				
August	PERIODIC TEST-2			
September	REVISION & TERM-I EXAMINATION			
September				
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