Doon Public School

A New Generation Sr. Sec. School | Affiliated to CBSE

Sector 21, Panchkula - 134 112 (Haryana)

Class - XII (Science)

Syllabus for the Session 2026-27

English

Book Prescribed: NCERT			
	Months	**Content**	**Learning Outcomes**
TERM -I	**March - April & May**	Chapter No. 1: The Last Lesson (prose), Flamingo	**Students will be able to:** **Remember:** The theme and message and traits of Franz and M.Hamel **Understand:** The importance of one's own language, emotional 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
		Notice (Writing)	**Students will be able to:** **Remember:** The format and structure of the Notice **Understand:** The question and use W's properly **Apply**: Notice in real life scenario for effective communication **Analyze:** The appropriate use of language while doing the question
		Chapter No. 2: Lost Spring (Prose, Flamingo)	**Students will be able to:** **Remember:** Traits of Sahib and Mukesh, theme and message of the chapter **Understand**: Harsh realities of slum children, importance of childhood and those traditions that condemn slum children to a life of exploitation **Apply**: The gained knowledge and understanding of character's situation into real life situation and be empathetic **Analyze:** The circumstances and situation of both the protagonists and that society and political class only add to the sufferings of the slum and poor children .
		Chapter No. 3 : Deep Water (Prose, Flamingo)	**Students will be able to:** **Remember**: Autobiographical element of the author, theme, 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 psychology **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. 1: The Third Level (Prose, Vistas)	**Students will be able to:** **Remember:** The setting of the chapter, the chronological events of the story **Understand:** Psychological impact of world wars on people and concept of escapism through Charlie **Apply**: The gained knowledge through Charlie and Sam's

			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: The Tiger King (Prose, Vistas)	**Students will be able to:** **Remember:** Pre independence era of royal families, theme and message of the chapter **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 priest's prophecy **Analyze:** The character sketch of the king and his minister
		Chapter No. My Mother at Sixty Six (Poem , Flamingo)	**Students will be able to:** **Remember:** Theme, message and central idea of the poem **Understand**: Poetic devices used in the poem and that aging and death is inevitable **Apply:** The gained knowledge in cherishing the moments spent with loved ones and importance of living in present **Analyze:** The emotions and fear of losing the mother, bonding between mother- daughter, nostalgic childhood memories
		Letter to the Editor (Writing)	**Students will be able to:** **Remember:** The format of the letter **Understand**: The need and usage of the letter writing **Apply:** The learned skill to write letters and bring the issues into the limelight through letter writing **Analyze:** the importance of writing letters
	June	**SUMMER BREAK**	
	July	Chapter No. 4: The Rattrap (Flamingo, Prose)	**Students will be able to:** **Remember:** The chronological events of the fairy-tale story and traits of all the characters **Understand:** The metaphorical representation of rattrap **Apply:** The message and the moral of the story in real life ; convincing power **Analyze:** The fact that every human being has an essential goodness that can be awakened through understanding and love
		Chapter No. 5 Indigo (Flamingo, Prose)	**Students will be able to:** **Remember:** Political and social scenario (British, sharecroppers, chronological events) of that time **Understand:** Gandhian philosophy, nonviolence, justice for oppressed **Apply**: The philosophy 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
		Chapter No. 3: Journey to the End of the Earth	**Students will be able to:** **Remember:** The geological events during Gondwana land, flaura and fauna of that time **Understand:** The importance of Antarctica region for the existence 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
		Invitation Writing, Article writing	**Students will be able to:** **Remember:** The various formats of formal and informal invitation writing and report writing **Understand:** The importance of crisp clear invitations and report writing **Apply:** The art of framing impressive invitations and reports

			Analyze: The challenges faced by reporters or media people
		Chapter No. – Poem Keeping Quiet (Flamingo)	**Students will be able to:** **Remember:** Theme, message and central idea of the poem **Understand:** Poetic devices used, interpretation, importance of 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. – Poem A Thing of Beauty (Flamingo)	**Students will be able to:** **Remember:** The theme and message of the poem **Understand:** The healing power of Nature and that it always give solace **Apply:** The contextual knowledge of the poem in the real life situation and living a worthy life **Analyze:** The importance of Nature and the bounties we have
	August	**PERIODIC TEST I**	
		Chapter No. 4: The Enemy (Vistas)	**Students will be able to:** **Remember:** The theme message and traits of the Dr. Sadao **Understand:** The difference between a responsible citizen , true patriot and an ethical professionalism **Apply:** The fact that 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
		Report Writing	**Students will be able to:** **Remember:** The various formats of formal and informal invitation writing and report writing **Understand:** The importance of crisp clear invitations and report writing **Apply:** The art of framing impressive invitations and reports **Analyze:** The challenges faced by reporters or media people
		Chapter No. 5: On the Face of It. (Vistas)	**Students will be able to:** **Remember:** The characteristics of Derry and Lamb **Understand:** The pain of physical handicapped is far less than the sense of alienation they feel and society can help **Apply:** The understanding in being mindful and give space, opportunities , love, care to disabled people to help in their inclusion **Analyze:** The pain, agony and challenges faced by disabled people
		Chapter No. 6: Poets and Pancakes (Flamingo)	**Students will be able to:** **Remember:** The theme message and traits of the Subbu. **Understand:** The structure of the chapter, and that the course of the events is not in a storyline. **Apply:** The glimpses of office politics prevailing at every work place and learn to avoid it do your work sincerely **Analyze:** The various personalities in the chapter and that it's a small world
		Chapter No. 7: The Interview (Flamingo)	**Remember:** The various definitions of Interviews given by different poets **Understand:** The conversation and interview pattern **Apply:** The art of framing good questions to get the desirable answer and make people comfortable with your communication skills **Analyze:** The challenges faced by reporters or media people
	September	A Roadside Stand (Poem, Flamingo)	**Students will be able to:** **Remember:** Idea, theme and message of the poem **Understand:** The social division- poor and rich people **Apply:** The empathetic behaviour with others but not to involve to the extent wherein you suffer at the end **Analyze:** The easy lives of city dwellers and hardships in the

			lives of rural people
TERM -II	October	Chapter No. 8: Going Places (Flamingo)	**Students will be able to:** **Remember:** The theme, message and the incidents of the chapter in detail **Understand:** The strength of family bond, relationship and financial problems in a family **Apply**: The gained knowledge in differentiating between realistic and unrealistic dreams **Analyze:** The advantages and disadvantages of escapism, fantasy and hero worshiping
		Chapter No. 6 : Memories of Childhood(Vistas)	**Remember:** The theme, message and the incidents of the chapter in detail **Understand:** The teenage struggles, hero worshipping, escapism and unrealistic dream of the youngsters **Apply:**The psychological ideology of dreaming, escapism in understanding the teenagers and theirs struggles **Analyze:** The advantages and disadvantages of escapism, fantasy and hero worshiping
		Aunt Jennifer's Tiger (Poem, Flamingo)	**Students will be able to:** **Remember:** Idea, theme and message of the poem **Understand:** The central idea of the poem **Apply:** The understanding of the poem along with the poetic devices. **Analyze:**The sharp juxtaposition between Aunt Jennifer's 'terrified fluttering hands' and 'prancing proud unafraid'
		PREPARATORY EXAMINATION	
	November	**PREPARATORY EXAMINATION & REVISION OF SYLLABUS FOR PRE-BOARD EXAMINATION**	
	December	**PRE-BOARD EXAMINATION**	
	January	**CBSE PRACTICAL AND INTERNAL ASSESSMENT**	
	February & March	**CBSE BOARD EXAMINATION**	

Physics

Book Prescribed: NCERT			
TERM -I	**Months**	**Content**	**Learning Outcomes**
		Chapter 1: Electric Charges and Fields	**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:** The concept of Gauss's Theorem to derive and calculate the electric field for: An infinitely long straight wire **Analyze**:The stable and unstable equilibrium positions of a dipole in a uniform electric field based on the torque equation

	March - April & May	Chapter 2: Electrostatic Potential and Capacitance	**Students will be able to:** **Remember:** Electric potential, potential difference, capacitance and the concept of equipotential surfaces **Understand**: Potential due to point charge and potential energy due to a dipole **Apply:** The gained knowledge to solve numerical problems on capacitors with/without dielectric **Analyze:** Electric potential energy of the system of charges
		Chapter 3: Current Electricity	**Students will be able to:** **Remember:** Statement of Ohm's law and the concept of resistivity and conductivity **Understand:** Concept of drift velocity, mobility and V-I characteristics(linear and non-linear) **Apply:** Kirchhoff's rules and solve circuit problems **Analyze**: Internal resistance and temperature dependence of Resistors
		Chapter 4: Moving Charges and Magnetism	**Students will be able to:** **Remember:** Oersted's experiment, Biot-Savart law and Ampere's law. **Understand:** Magnetic field concepts and force on moving charges. **Apply:** Ampere's law and Biot-Savart law to determine magnetic field of 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	**SUMMER BREAK**	
	July	Chapter No. 5: Magnetism and Matter	**Students will be able to:** **Remember:** Magnetization, and define magnetic dipole, **Understand:** Basic Properties of magnets and some important definitions connected to magnetism **Apply:** Concept of torque on dipole and deduce an expression for the potential energy of a dipole placed in a magnetic field **Analyze:** Differentiate 'dia/ para/ ferromagnetism' on the basis of range/order of magnitude of the values of χ , μ_r and μ
		Chapter No. 6: Electromagnetic Induction	**Students will be able to:** **Remember:** Magnetic flux, Faraday's laws, Lenz's law, induced EMF/current, and self/mutual induction with their SI units **Understand:** Motional EMF generation, Lenz's law as a reflection of energy conservation, and the physical mechanism behind self and mutual inductance **Apply:** Faraday's equations, motional EMF formulas, and inductance coefficients to solve numerical problems regarding induced quantities **Analyze:** Factors affecting inductance coefficients (geometry, turns, core material) and the characteristics of energy stored in a magnetic field
		Chapter No. 7: Alternating Current	**Students will be able to:** **Remember:** Peak and RMS values of AC current/voltage, reactance, impedance, resonance condition, power factor, watt less current, and the working elements of an AC generator and transformer. **Understand:** Phase relationships between voltage and current in L, C, and R components, the mechanism of electrical resonance, power dissipation in AC circuits, and the operational principles of transformers and generators. **Apply:** Phasor diagrams, impedance formulas, resonant

			frequency, and transformer turn ratios to solve numerical problems. **Analyze:** Variations of circuit impedance and current with frequency in an LCR series circuit, energy losses in a transformer, and the role of the power factor in efficient electrical power transmission.
		Chapter No. – 8 Electromagnetic Waves	**Students will be able to:** **Remember:** Concept of displacement current, basic properties of electromagnetic waves, their transverse nature, and the classification, frequency/wavelength ranges, and primary uses of all regions of the electromagnetic spectrum **Understand:** Necessity of displacement current for consistency in Ampere's Law, the mechanism of EM wave propagation through oscillating electric and magnetic fields, and the distinct characteristics of each spectrum band **Apply:** Relations between wavelength, frequency, and speed of light, as well as electric and magnetic field amplitudes, to solve numerical and identification problems. **Analyze:** Transverse nature of EM waves based on mutually perpendicular electric and magnetic field vectors, and the correlation between the energy/penetration power of spectrum waves and their specific real-world applications.
	August	**PERIODIC TEST I**	
		Chapter No. 12: Atoms	**Students will be able to:** **Remember:** Experimental observations of alpha-particle scattering, postulates of Rutherford's nuclear model, postulates of Bohr's atomic model, and the named series of the hydrogen line spectrum. **Understand:** Mechanism of alpha-particle trajectories (impact parameter and distance of closest approach), orbital stability vs. electromagnetic instability in classical models, and the origin of discrete spectral lines through electron energy transitions. **Apply:** Formulae for the radius of an atom, velocity, and total energy of an electron in the Bohr orbit, along with the Rydberg formula, to solve numerical problems. **Analyze:** Relationship between kinetic and potential energies of an orbiting electron, the physical significance of negative total energy signifying a bound state, and the limitations of both the Rutherford and Bohr atomic models
		Chapter No. 13: Nuclei	**Students will be able to:** **Remember:** Composition of the nucleus (protons and neutrons), nuclear size, properties of the nuclear force, Einstein's mass-energy equivalence, definition of mass defect and binding energy per nucleon, and the definitions of nuclear fission and nuclear fusion **Understand:** Proportionality of nuclear radius to the cube root of the mass number, the constant density of nuclear matter, the mechanism of mass loss converted into binding energy, and the process of energy release through the reconfiguration of nucleons **Apply:** Formulae for nuclear radius, mass defect, total binding energy, and binding energy per nucleon to solve numerical problems and calculate the energy released in fission and fusion reactions **Analyze:** Trends in the binding energy per nucleon curve versus mass number to explain the stability of nuclei, the maximum stability around iron , and the thermodynamic favourability of fission for heavy nuclei and fusion for light nuclei

TERM -II	**September**	Chapter No. 9: Ray Optics and Optical Instruments	**Students will be able to:** **Remember:** Definitions of spherical mirror and lens parameters (focus, pole/optic center, curvature), laws of reflection and refraction, conditions for total internal reflection (TIR), definitions of critical angle, power of a lens, and dispersive/magnifying powers of optical instruments **Understand:** Sign conventions, the path of light through a prism (deviation and dispersion), the mechanism of light containment in optical fibers via TIR, image formation by real/virtual configurations in mirrors and lenses, and the ray paths through compound microscopes and astronomical telescopes **Apply:** Mirror formula , thin lens formula, lens maker's formula , power combination , and magnifying power equations for microscopes and telescopes (at normal adjustment and least distance of distinct vision) to solve numerical problems **Analyze**: Variations in focal length when a lens is immersed in different refractive index media, the derivation of the prism formula from the angle of incidence- deviation curve, and the performance advantages of reflecting telescopes (such as mitigating chromatic and spherical aberrations) over refracting telescopes
	October	Chapter No. 10: Wave Optics	**Remember:** Definition of a wavefront (spherical, cylindrical, and plane), Huygens' principle, the statement of the laws of reflection and refraction, conditions for sustained interference, and the definitions of coherent sources, fringe width, and diffraction **Understand:** Geometric construction of secondary wavelets to determine new wavefront positions, the phase changes occurring during reflection and refraction, the superposition principle leading to constructive and destructive interference, and the physical distinction between interference and diffraction **Apply:** Mathematical expressions for Young's double-slit fringe width , positions of bright and dark fringes, and the angular/linear width of the central maximum in single-slit diffraction to solve numerical problems **Analyze:** Geometric proofs of the laws of reflection and refraction (Snell's Law) using advancing wavefront diagrams, and the effect of altering experimental parameters (such as immersion in a liquid or changing slit separation) on interference and diffraction patterns
		Chapter No. 11: Dual Nature of Radiation and Matter	**Students will be able to:** **Remember:** Concept of dual nature, definitions of work function, threshold frequency, and stopping potential, experimental setups of Hertz, Lenard, and Millikan, Einstein's photoelectric equation, and the de-Broglie hypothesis for matter waves **Understand:** Limitations of wave theory in explaining the photoelectric effect, the physical mechanism of photon-electron collisions, the dependence of photoelectric current on intensity and stopping potential on frequency, and the dual nature of material particles **Apply**: Einstein's photoelectric equation and de-Broglie relations to calculate photon energy, work function, maximum kinetic energy, threshold frequency, and de-Broglie wavelengths of particles accelerated through a potential difference **Analyze:** Graphic representations of experimental data (photoelectric current vs. potential, stopping potential vs. frequency) to extract Planck's constant and work functions, and the implications of the inverse relationship between particle mass and its associated de-Broglie wavelength

		Chapter No. – 14 Semiconductor Electronics: Materials, Devices and Simple Circuits	**Students will be able to:** **Remember:** Energy bands (valence and conduction bands), forbidden energy gap, definitions of intrinsic and extrinsic (p-type and n-type) semiconductors, p-n junction formation, and the circuit arrangements for forward and reverse biasing of a semiconductor diode **Understand**: Classification of solids into conductors, semiconductors, and insulators based on band gap width, the mechanism of charge carrier generation (electrons and holes) via doping, the concepts of diffusion and drift currents leading to a depletion layer, and the unidirectional current flow property of a diode **Apply:** Circuit diagrams and mathematical relationships for calculating input/output frequencies and efficiency of half-wave and full-wave rectifiers, as well as plotting and utilizing I-V characteristic curves to solve numerical or conceptual problems Analyze: Dynamic resistance variations from the forward and reverse bias I-V curves, the effect of temperature and doping concentration on the width of the depletion region, and the transformation of alternating current into pulsating direct current during the rectification process
		PREPARATORY EXAMINATION	
	November	**PREPARATORY EXAMINATION & REVISION OF SYLLABUS FOR PRE-BOARD EXAMINATION**	
	December	**PRE-BOARD EXAMINATION**	
	January	**CBSE PRACTICAL AND INTERNAL ASSESSMENT**	
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Chemistry

Book Prescribed: NCERT			
	Months	**Content**	**Learning Outcomes**
TERM -1	**March - April & May**	Chapter No. – 6 Haloalkanes and Haloarenes	**Students will be able to:** **Remember:** The definitions of haloalkanes, haloarenes, and their types **Understand:** The physical properties and nature of C–X bond **Apply:** The prediction of products of nucleophilic substitution reactions **Analyze**: The reactivity of different halogen compounds
		Chapter No. – 7 Alcohols, Phenols and Ethers	**Students will be able to:** **Remember**: The classification classify alcohols, phenols, and ethers **Understand:** The process of preparation and chemical properties **Apply:** The gained knowledge to predict outcomes of addition and oxidation reactions **Analyze:** Reactivity and acidity among the three groups

		Chapter No. – 1 Solutions	**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 **Analyze:** Deviations from ideal behavior
	June	**SUMMER BREAK**	
	July	Chapter No. – 8 Aldehydes, Ketones and Carboxylic Acids	**Students will be able to:** **Remember:** The identification and definition of carbonyl and carboxyl groups **Understand:** The process of preparation and chemical properties **Apply:** The gained knowledge to predict outcomes of addition and oxidation reactions **Analyze:** Reactivity and acidity among the three groups
		Chapter No. – 2 Electrochemistry	**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 **Analyze:** Standard electrode potentials to predict reactions
		Chapter No. – 9 Amines	**Students will be able to:** **Remember:** Definition and classification of amines **Understand:** The structure, preparation, and basicity of amines **Apply:** The gained knowledge to predict reactions of amines with reagents **Analyze:** Primary, secondary, and tertiary amines
	August	**PERIODIC TEST I**	
		Chapter No. – 3 Chemical Kinetics	**Students will be able to:** **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 **Analyze:** Graphs and reaction mechanisms
		Chapter No. – 10 Biomolecules	**Students will be able to:** **Remember:** The types of biomolecules and their monomers **Understand:** The structure and functions of carbohydrates, proteins, and nucleic acids **Apply:** The gained knowledge to classify biomolecules based on function and structure **Analyze:** The difference between types of sugars, amino acids, and enzymes
TERM-II	**September**	Chapter No. 4: d and f block Elements	**Students will be able to:** **Remember:** The list of d- and f-block elements and their positions **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
	October	Chapter No. 5: Coordination Compounds	**Students will be able to:** **Remember:** The concept of define ligands, coordination number, and complex compounds **Understand:** The IUPAC naming and bonding in complexes **Apply:** The gained knowledge to write formulas and structures of coordination compounds **Analyze:** The different isomers and predict stability
		PREPARATORY EXAMINATION	

	November	**PREPARATORY EXAMINATION & REVISION OF SYLLABUS FOR PRE-BOARD EXAMINATION**
	December	**PRE-BOARD EXAMINATION**
	January	**CBSE PRACTICAL AND INTERNAL ASSESSMENT**
	February & March	**CBSE BOARD EXAMINATION**

Biology

Book Prescribed: NCERT

	Months	**Content**	**Learning Outcomes**
TERM -I	**March - April & May**	Chapter No. 1: Sexual Reproduction In Flowering Plants.	**Students will be able to:** **Remember:** The structure of stamen, pistil and different types of pollination: autogamy, geitonogamy, xenogamy **Understand**: The structure of T.S. of an anther, anatropous ovule, process of microsporogenesis, megasporogenesis, artificial 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 improvement **Analyze:** The different types of pollination with their advantages and evaluate the role of artificial hybridization in plant breeding
		Chapter No. 2: Human Reproduction	**Students will be able to:** **Remember:** The male and female reproductive systems, the role of their primary sex organs, accessory glands, accessory ducts and external genitalia **Understand:** The processes of spermatogenesis, oogenesis, menstrual 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: Reproductive Health	**Students will be able to:** **Remember:** The meaning of reproductive health, problems faced 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, and IUI **Apply**: The gained knowledge of reproductive health to understand the impact of reproductive health issues on individuals and communities **Analyze:** The impact of reproductive health issues on individuals and communities and evaluate the importance of reproductive health education and awareness

		Chapter No. 4: Principles of Inheritance and Variations.	**Students will be able to:** **Remember:** The definition of inheritance and variation and Mendel's laws of inheritance **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: Molecular Basis of Inheritance.	**Students will be able to:** **Remember**: The structure and function of DNA and RNA **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	**SUMMER BREAK**	
	July	Chapter No. 6: Evolution	**Students will be able to:** **Remember:** The meaning of evolution and its significance in biology. **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	**Students will be able to:** **Remember:** Concepts of health and disease, pathogens, immunity, vaccines, allergies, autoimmune disorders, cancer, drug types, and drug addiction **Understand:** **T**he body's immune responses, mechanisms of disease transmission, causes and prevention of cancer, and the effects of alcohol, tobacco, narcotics, and other addictive drugs on human health **Apply:** The gained knowledge to relate vaccination, hygienic practices, and healthy lifestyle choices to disease prevention and identify measures to avoid substance abuse and addiction **Analyze:** The impact of infectious diseases, cancer, and drug addiction on individuals and society and evaluate strategies for prevention, control, and rehabilitation
	August	**PERIODIC TEST I**	
		Chapter No. 8: Microbes In Human Welfare	**Students will be able to:** **Remember:** Useful microbes and their applications in industry, agriculture, medicine, and sewage treatment **Understand:** The role of microbes in food production, biogas generation, and environmental management **Apply:** Microbial products and relate their applications to real-life situations **Analyze:** The significance of microbes in sustainable development and environmental conservation

		Chapter No. 9: Biotechnology: Principles and Processes	**Students will be able to:** **Remember:** Tools of recombinant DNA technology and steps involved in genetic engineering. **Understand:** Principles of biotechnology, cloning vectors, enzymes, and gene transfer techniques. **Apply:** The gained knowledge to illustrate recombinant DNA technology processes and identify appropriate tools for genetic manipulation. **Analyze:** The role of various enzymes, vectors, and host organisms in biotechnology applications.
		Chapter No. 10: Biotechnology and its Applications	**Students will be able to:** **Remember:** Applications of biotechnology in medicine, agriculture, and environmental management **Understand:** Transgenic organisms, gene therapy, molecular diagnosis, and biopiracy **Apply:** The gained knowledge to **r**elate biotechnology applications to healthcare, agriculture, and industrial production. **Analyze:** The benefits, risks, ethical concerns, and socio-economic impacts of biotechnology.
TERM -II	**September**	**TERM I EXAMINATION**	
	October	Chapter No. – 11 Organisms and Populations	**Students will be able to:** **Remember:**The definition of habitat, niche, population, and adaptations; recall types of interactions among organisms. **Understand:**How abiotic and biotic factors influence the distribution and survival of organisms. **Apply:**The examples of adaptation and predict outcomes of interactions such as competition, predation, and mutualism. **Analyze:**The population interactions and evaluate their ecological significance in maintaining ecosystem balance.
		Chapter No. – 12 Ecosystem	**Students will be able to:** **Remember:**The components of an ecosystem and trophic levels. **Understand:**How energy flows, food chains, food webs, ecological pyramids, and nutrient cycling. **Apply:** The knowledge to **c**onstruct food chains, food webs, and ecological pyramids from given situations. **Analyze:**The energy transfer efficiency and the impact of disturbances on ecosystem stability.
		Chapter No. – 13 Biodiversity and Conservation	**Students will be able to:** **Remember:**The levels of biodiversity, biodiversity hotspots, and conservation strategies. **Understand:**The importance of biodiversity and causes of biodiversity loss. **Apply:** The conservation measures to real-life environmental issues and local biodiversity. **Analyze:**The threats to biodiversity and compare in-situ and ex-situ conservation methods.
		PREPARATORY EXAMINATION	
	November	**PREPARATORY EXAMINATION & REVISION OF SYLLABUS FOR PRE-BOARD EXAMINATION**	
	December	**PRE-BOARD EXAMINATION**	
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Mathematics(041)

Book Prescribed: NCERT			
	Months	**Content**	**Learning Outcomes**
Term-1	**March – April & May**	Chapter No. 3 Matrices	**Students will be able to:** **Remember:** The concept of matrices, type of matrices, operations on matrices, 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 (order 2) ; the uniqueness of inverse of a matrix, if it exists
		Chapter No. 4 Determinants	**Students will be able to:** **Remember:** The key terms - Determinant of a square matrix, minors and co- factors. **Understand:** The method of finding the adjoint, inverse of a square matrix and number of solutions of system of linear equations **Apply:** The acquired knowledge to solve the system of linear equations in two or three variables (having unique solution) using inverse of a matrix **Analyze:** The consistency and inconsistency of solutions
		Chapter No.1 Relations and Functions	**Students will be able to:** **Remember:** Types of relations- reflexive, symmetric, transitive. **Understand**: The concept of equivalence relations and bijective mappings **Apply:** The gained knowledge to identify equivalence relations and bijective mappings **Analyze:** Different types of relations and functions
		Chapter No.2 Inverse Trigonometric Functions	**Students will be able to:** **Remember:** Definitions and properties of inverse trigonometric functions **Understand:** Domain and range of inverse trigonometric functions **Apply:** The gained knowledge to evaluate problems in inverse trigonometric functions **Analyze:** The restrictions on the domain and range of inverse trigonometric functions
		Chapter No. – 5 Continuity and differentiability	**Students will be able to:** **Remember:** The concept of continuity and differentiability, chain rule, derivative of composite functions and inverse trigonometric functions **Understand:** Derivative of implicit functions and the concept of exponential and logarithmic functions **Apply:** Differentiation rules to find derivatives of functions, including Trigonometric functions, Exponential and logarithmic functions and Composite functions **Analyze:** Continuity and differentiability of functions and identifying points of discontinuity
	June	**SUMMER BREAK**	
		Chapter No. – 6 Application of derivatives (Rate of change , Increasing and decreasing functions, Maxima and Minima)	**Students will be able to:** **Remember:** The concepts of derivatives and their applications, definitions of maxima, minima, critical points, and first/second derivative tests **Understand:** The rate of change of functions with respect to a variable, increasing/decreasing functions and the concepts of

	July		local and absolute maxima/minima and conditions for their existence **Apply:** The gained knowledge to use derivatives to find rates of change, identify increasing/decreasing intervals and solve optimization problems **Analyze:** Different functions to determine their behaviour (increasing/decreasing) and solve related problems and various real-life problems and determine maximum or minimum values
	August	**PERIODIC TEST I**	
		Chapter No. – 7 Integers	**Students will be able to:** **Remember:** The key difference between definite and indefinite integrals **Understand:** Integration as inverse process of differentiation **Apply:** The gained knowledge to solve problems of Integration of variety of functions by substitution method, partial fractions and integration by parts **Analyze:** Different integration techniques and their applications
		Chapter No. – 8 Application of Integrals	**Students will be able to:** **Remember:** Key concepts related to application of integrals **Understand:** How integrals are used to solve real-world problems **Apply:** The gained knowledge in finding the area under simple curves, especially lines, circles/ parabolas/ellipses **Analyze:** Area under different curves
		Chapter No. – 9 Differential Equations	**Students will be able to:** **Remember:** Definition, order and degree, general and particular solutions of a differential equation **Understand:** General and particular solutions of a differential equation **Apply:** Various techniques to solve differential equations **Analyze:** Solutions of differential equations in the context of real world problems
	September	Chapter No. – 10 Vector Algebra	**Students will be able to:** **Remember:** Vectors and scalars, magnitude and direction of a vector **Understand:** Direction cosines and direction ratios of a vector, Types of vectors, position vector of a point, negative of a vector and components of a vector **Apply:** The gained knowledge to solve problems related to addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio **Analyze:** The difference between dot, cross and scalar triple product of the vectors
TERM -II		Chapter No. – 11 Three Dimensional Geometry	**Students will be able to:** **Remember:** Direction cosines and direction ratios of a line joining two points **Understand**: Cartesian equation and vector equation of a line **Apply:** The gained knowledge to find angle between two lines **Analyze:** Shortest distance between two skew and parallel lines
	October	Chapter No. – 12 Linear Programming	**Students will be able to:** **Remember:** Definition of linear programing, objective function, constraints and feasible region **Understand:** The formulation of linear programming problems and the graphical method for solving linear programming problems **Apply:** The gained knowledge to apply various methods to solve linear programming problems

			Analyze: Feasible and infeasible regions (bounded or unbounded), optimal feasible solutions
		Chapter No. – 13 Probability	**Students will be able to:** **Remember:** Key concepts such as independence of events, multiplication rule and Bayes' theorem **Understand:** The concept of conditional probability **Apply:** The gained knowledge to calculate the probability of event A when event B has already occurred **Analyze:** The impact of probability of one event on the probability of another event
		Preparatory Examination	
	November	**Preparatory Examination & Revision of Syllabus for Pre-Board Examination**	
	December	**Pre-Board Examination**	
	January	**CBSE Practical and Internal Assessment**	
	February & March	**CBSE Board Examination**	

Computer Science

Book Prescribed: Computer Science with Python (Sumita Arora - Dhanpat Rai Pub.)			
	Months	**Content**	**Learning Outcomes**
TERM -I	**March - April & May**	Chapter No. 8 : Computer network- I	**Students will be able to:** **Remember:** Fundamentals requirements and application of Networking **Understand:** How data is transferred in a network **Apply:** The skill to demonstrate how to connect computers in a simple network **Analyze:** The advantages and disadvantages of different network topologies
		Chapter No. 9: Computer network- II	**Students will be able to:** **Remember**: The steps of networking devices such as router, switch, hub, modem, etc **Understand:** How a basic network setup works **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:** 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	**SUMMER BREAK**	
	July	Chapter No. 10: Relational Databases	**Students will be able to:** **Remember:** The 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:** The structure of a relational database and how data is stored in tables **Apply:** The gained knowledge to create and modify simple relational database tables using SQL. Write and execute SQL queries to insert, retrieve, and manipulate data **Analyze: T**he relationship type (one-to-one, one-to-many, many-to-many) between tables
		Chapter No. 11: Simple Queries in SQL	**Students will be able to:** **Remember**: The basic SQL commands (e.g., SELECT, FROM, WHERE, ORDER BY, DISTINCT) **Understand:** How the SELECT statement retrieves data from a database **Apply:** The knowledge to write steps for basic SQL queries to retrieve specific data from a table. **Analyze**: The conditions in WHERE clause to filter results Appropriately
		Chapter No. 12: Table Creation and data manipulation Commands	**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**: The knowledge to 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
	August	**PERIODIC TEST I**	
		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:** 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:** The knowledge to solve real-life problems involving data summarization and table relationships. **Analyze:** The meaning of query performance and optimize SQL statements for better results.

		Chapter No. 3: Working with Function	**Students will be able to:** **Remember:** The 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:** The simple functions to perform specific tasks (e.g., add two numbers, check even/odd, calculate area) **Analyze:** The errors or issues in function definitions or function calls. Break a complex problem into smaller sub-problems using functions.
TERM -II	**September**	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 datetime **Understand:** Purpose of using libraries in Python programming **Apply:** The gained knowledge to use specific functions from libraries to solve problems (e.g., generating random numbers, performing mathematical calculations) **Analyze**: Examine code to determine how library functions are being used.
		Chapter No. - 6 Exception Handling in Python	**Students will be able to:** **Remember:** Exceptions and error types in Python **Understand:** The flow of control in a try-except block **Apply:** The gained knowledge to write Python code using try-except blocks to handle exceptions **Analyze:** Error identification in Python code and suggest appropriate exception handling mechanisms
	October	Chapter No. :5 File Handling	**Students will be able to:** **Remember**: File handling and its importance in programming and different modes of file access (read, write, append, etc.) **Understand:** How file input and output operations work and describe the differences between text and binary files **Apply**: The gained knowledge for file handling to store and retrieve data in real-world scenarios (e.g., reading from a data file) **Analyze:** Programs of binary and text files
		Chapter No. :7 Data Structure	**Students will be able to:** **Remember**: The terms push, pop, peek, and LIFO (Last In, First Out) **Understand:** The working principle of a stack **Apply:** The gained knowledge to implement stack operations using Python lists **Analyze:** Stack-based implementations and trace the order of execution
		Chapter No. :14 Interface Python with MYSQL	**Students will be able to:** **Remember**: Key terms such as MySQL, database, table, cursor, connection, and query and identify Python libraries/modules used for MySQL connectivity (e.g., mysql.connector) **Understand**: The process of connecting Python with a MySQL database **Apply:** The gained knowledge to establish a connection between Python and MySQL using mysql.connector **Analyze**: Different methods of executing queries and retrieving results e.g., fetchone(), fetchall()
		PREPARATORY EXAMINATION	
	November	**PREPARATORY EXAMINATION & REVISION OF SYLLABUS FOR PRE-BOARD EXAMINATION**	

	December	**PRE-BOARD EXAMINATION**
	January	**CBSE PRACTICAL AND INTERNAL ASSESSMENT**
	February & March	**CBSE BOARD EXAMINATION**

Physical Education

Book Prescribed: S.P Book			
	Months	**Content**	**Learning Outcomes**
TERM -I	**March - April & May**	UNIT-1 Management of sporting events	**Students will be able to:** **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 Children and Women in Sports	**Students will be able to:** **Remember:** Policies and programs that support children and women in sports and define key terms related to gender equity 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 Training in sports	**Students will be able to:** **Remember:** The concept of term training in the context of 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	**SUMMER BREAK**	
	July	UNIT-4 Physical education and sports for CWSN (Children with special needs -divyang)	**Students will be able to:** **Remember:** The meaning of CWSN, types of disabilities, paralympics and Special Olympics **Understand:** The importance of inclusion, physical activity benefits, the roles of schools, teachers, and families **Apply:** Inclusive activities , modify games for accessibility, and promote team spirit and acceptance for CWSN **Analyze:** The barriers for CWSN, sports' role in inclusion, and reflect on successful CWSN athletes and programs
		UNIT-5 Sports and Nutrition	**Students will be able to:** **Remember:** The meaning of nutrition, nutrients its sources, importance of hydration, dietary supplements **Understand:** The importance of nutrition and its impact in recovery, endurance **Apply:** Tailored nutritional and hydration plans for athletes **Analyze**: The sports nutrition strategies, poor nutrition's impact
	August	**PERIODIC TEST I**	
		UNIT-6 Test and measurement in sports	**Students will be able to:** **Remember:** The meaning of test, measurement, and evaluation in sports **Understand:** The purpose of fitness and skill tests, how to calculate results, and interpret scores against standards **Apply:** The use of test outcomes to design training programs with techniques suited to the sports **Analyze:** Different tests to evaluate overall fitness and its relation to sports performance
		UNIT-7 Physiology and injuries in sports	**Students will be able to:** **Remember:** The meaning of physiology, sports injuries, types of injuries **Understand:** The physiological responses to exercise and body's recovery process and the importance of preventive measures **Apply:** First aid techniques to the injuries, manage fatigue and recovery, and recommend safe practices and equipment **Analyze:** The difference between acute versus chronic injuries causes of injury, access injury-prone areas
	September	Unit-3 Yoga as preventing measure for lifestyle disease	**Students will be able to:** **Remember:** Key terms - Lifestyle diseases, preventive yoga asanas, sedentary lifestyles and yogic practices **Understand:** How yoga helps in preventing lifestyle-related diseases, physiological and psychological benefits of regular yoga practice **Apply:** The gained knowledge to demonstrate specific yoga asanas and yogic principles that help in managing time, diet, stress levels and prevent common lifestyle disorders **Analyze:** The effectiveness of yoga with other forms of exercise in preventing diseases and the role of yoga in public health and wellness initiatives

TERM-II	**October**	Unit-8 Biomechanics and sports	**Students will be able to:** **Remember:** Basic terms - Motion, force, equilibrium, and friction, biomechanics and its importance in sports, list types of movements (linear, angular, and general motion) and the laws of motion relevant to physical activities **Understand:** How biomechanics improves athletic performance and how forces act on the human body during movement; the relationship between stability and balance in sports and the role of friction and gravity in different sports scenarios **Apply:** The gained knowledge to use the concept of center of gravity and base of support in balance-related sports and demonstrate correct body posture and movement using biomechanical principles **Analyze:** How biomechanical principles reduce the risk of injury and break down complex movements into simpler biomechanical components
		UNIT-9 Psychology and sports	Students will be able to: **Remember:** Key terms such as motivation, personality, and mental preparation and list types of motivation **Understand:** The impact of motivation and personality on sports performance and the relationship between psychological state and performance **Apply:** Motivation techniques to improve individual or team performance and use concentration and relaxation strategies in sports situations **Analyze:** How personality types affect team dynamics and individual performance and examine the role of psychology in managing stress and pressure during competitions
		PREPARATORY EXAMINATION	
	November	**PREPARATORY EXAMINATION & REVISION OF SYLLABUS FOR PRE-BOARD EXAMINATION**	
	December	**PRE-BOARD EXAMINATION**	
	January	**CBSE PRACTICAL AND INTERNAL ASSESSMENT**	
	February & March	**CBSE BOARD EXAMINATION**	

Marketing

Book Prescribed: CBSE Notes			
	Months	**Content**	**Learning Outcomes**
TERM-I	**March - April & May**	Unit : 1 Communication Skills IV (Employability Skills)	**Students will be able to:** **Remember:** The key terms like verbal, non-verbal, written, and visual communication **Understand:** The importance of tone, clarity, listening, and feedback in effective communication **Apply:** Proper communication in real-life banking scenarios (e.g., dealing with customers) **Analyze:** The communication barriers and suggest improvements

		Unit –I Product (Subject specific skill)	**Students will be able to:** **Remember:** Key terms like Product, Product Life Cycle (PLC), Introduction, Growth, Maturity, Decline, Packaging, Branding **Understand:** The stages of PLC and their characteristics; importance and functions of packaging **Apply:** The gained knowledge to identify real-life products in different PLC stages; design packaging for FMCG products **Analyze:** Products based on their PLC stage and marketing strategies used
	June	**SUMMER BREAK**	
	July	Unit-II Price Decision (Subject specific skill)	**Students will be able to:** **Remember:** Meaning of price, pricing methods and pricing objectives **Understand:** Factors affecting pricing decisions and the importance of pricing strategies **Apply:** Pricing concepts to real-life business situations and products **Analyze:** Different pricing strategies used by companies in competitive markets
		Unit-III Place Decision: Channels of Distribution(Subject specific skill)	**Students will be able to:** **Remember:** Meaning and types of distribution channels; role of intermediaries **Understand:** The importance of distribution in making products available to consumers **Apply:** Distribution concepts in identifying channels used by different companies **Analyze:** The effectiveness of various distribution strategies and supply chain systems
		Unit-II Self-Management Skills-IV (Employability Skill)	**Students will be able to:** **Remember:** The concepts of self-awareness, self-confidence, motivation and stress management **Understand:** The importance of positive attitude, goal setting and time management **Apply:** Self-management techniques in personal and academic life **Analyze:** Different situations involving stress and ways to handle them effectively
	August	**PERIODIC TEST I**	
		Unit-III ICT Skills (Employability Skill)	**Students will be able to:** **Remember:** Basic computer operations, internet usage and digital tools **Understand:** The role of ICT in communication, education and business **Apply:** ICT skills for presentations, data handling and online collaboration **Analyze:** The advantages and limitations of digital technologies in daily life
	September	Unit - IV Promotion (Subject specific skill)	**Students will be able to:** **Remember:** Meaning and elements of promotion – advertising, sales promotion, personal selling and publicity **Understand:** The role of promotion in creating awareness and increasing sales **Apply:** Promotional techniques in analysing marketing campaigns **Analyze:** Different promotional strategies used by brands and their effectiveness

TERM-II	**October**	Unit-IV Entrepreneurial Skills (Employability skill)	**Students will be able to:** **Remember:** Meaning of entrepreneurship, entrepreneur and entrepreneurial qualities **Understand:** The importance of innovation, risk-taking and business opportunities **Apply:** Entrepreneurial skills in identifying simple business ideas **Analyze:** Success stories and challenges faced by entrepreneurs
		Unit-V Green Skills (Employability Skills)	**Students will be able to:** **Remember:** Concepts of environment, sustainability and green economy **Understand:** The importance of conserving natural resources and sustainable practices **Apply:** Eco-friendly practices in school and daily life **Analyze:** Environmental challenges and methods to promote sustainability
		Unit-V Emerging Trends in Marketing (Subject specific skill)	**Students will be able to:** **Remember:** Concepts of digital marketing, social media marketing, e-marketing and influencer marketing **Understand:** The changing trends and technological advancements in marketing **Apply:** Digital marketing tools and strategies in real-life business situations **Analyze:** The impact of emerging marketing trends on consumers and businesses
		PREPARATORY EXAMINATION	
	November	**PREPARATORY EXAMINATION & REVISION OF SYLLABUS FOR PRE-BOARD EXAMINATION**	
	December	**PRE-BOARD EXAMINATION**	
	January	**CBSE PRACTICAL AND INTERNAL ASSESSMENT**	
	February & March	**CBSE BOARD EXAMINATION**	

Library & Information Science

Book Prescribed: CBSE			
	Months	**Content**	**Learning Outcomes**
TERM-I	**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
	June	**SUMMER BREAK**	
	July	Chapter No. 2: 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. 2: Self- Management Skills-IV (Employability Skills)	**Students will be able to:** **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 A**nalyze**: The complex behavior patterns or problems to understand causes and effects
	August	**PERIODIC TEST I**	
		Chapter No. 3: ICT Skills-IV (Employability 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.
		Chapter No. : 3 Name of the Chapter : 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/service and evaluate effectiveness.
	September	Chapter No. : 4 Entrepreneurial Skills-IV (Employability Skills)	**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
TERM-II	**October**	Chapter No. : 5 Communication Skills	**Students will be able to:** **Remember:** Basic concepts and components of communication Languages **Understand:** How communication works and the importance of clarity and tone **Apply:** The gained knowledge to use communication skills inpractical, real-world settings **Analyze:** Communication scenarios and assess effectiveness
		Chapter No.:5 Green Skills-IV (Employability Skills)	**Students will be able to:** **Remember:** Environmental concepts and sustainability practices **Understand:** The importance and concepts behind green practices **Apply:** The gained knowledge to use green skills in real-life

			scenarios or tasks **Analyze:** Environmental practices and their outcomes
		PREPARATORY EXAMINATION	
	November	**PREPARATORY EXAMINATION & REVISION OF SYLLABUS FOR PRE-BOARD EXAMINATION**	
	December	**PRE-BOARD EXAMINATION**	
	January	**CBSE PRACTICAL AND INTERNAL ASSESSMENT**	
	February & March	**CBSE BOARD EXAMINATION**	

Web Application

Book Prescribed: CBSE Resources			
	Months	**Content**	**Learning Outcomes**
TERM-I	**March - April & May**	Chapter No. :1 Communication Skills-IV (Employability Skills)	**Students will be able to:** **Remember:** The key components of effective communication **Understand:** The process and importance of communication skills **Apply:** Active listening and use appropriate communication techniques in group discussions **Analyze:** Real-life scenarios to identify communication gaps and suggest improvements
		Chapter 1: Emerging Trends (Subject Specific)	**Students will be able to:** **Remember:** Internet of Things (IoT) and Industrial Internet of Things (IIoT) **Understand:** The classification of different types of Operating Systems and their use. **Apply:** The gained knowledge to identify Cloud Computing and Edge Computing , Describe Artificial Intelligence (AI) and Machine Learning (ML) **Analyze:** The importance of Digital Marketing and its Career Opportunities, Recognize and explain the importance of Social Media Etiquette
	June	**SUMMER BREAK**	
	July	Chapter4 : Cyber Safety and Security (Subject Specific)	**Students will be able to:** **Remember:** Define cyber safety, cyber security, and cyber ethics. Identify common cyber threats such as viruses, phishing, malware, and hacking. Recall safe internet practices and password guidelines. **Understand:** Explain the importance of cyber safety and responsible online behavior. Describe how cyber threats affect individuals and organizations. Discuss the need for strong passwords, antivirus software, and data privacy. **Apply:** Create strong and secure passwords for online accounts. Demonstrate safe browsing and email practices to avoid cyber threats. **Analyze**: Differentiate between safe and unsafe online activities. Analyze real-life cybercrime scenarios and suggest preventive measures. Evaluate the authenticity of emails, websites, and online messages to identify potential cyber threats.

		Unit-III ICT Skills (Employability Skill)	**Students will be able to:** **Remember:** Basic computer operations, internet usage and digital tools **Understand:** The role of ICT in communication, education and business **Apply:** ICT skills for presentations, data handling and online collaboration **Analyze:** The advantages and limitations of digital technologies in daily life
	August	**PERIODIC TEST I**	
		Unit-II Self-Management Skills-IV (Employability Skill)	**Students will be able to:** **Remember:** The concepts of self-awareness, self-confidence, motivation and stress management **Understand:** The importance of positive attitude, goal setting and time management **Apply:** Self-management techniques in personal and academic life **Analyze:** Different situations involving stress and ways to handle them effectively
TERM-II	**September**	Unit-III Entrepreneurial Skill) (Employability Skill)	**Students will be able to:** **Remember:** Key terms related to entrepreneurship and identify the qualities, functions, and roles of an entrepreneur **Understand**: The importance of entrepreneurship in creating employment, promoting innovation, and contributing to economic development **Apply**: Entrepreneurial opportunities in daily life and suggest suitable business ideas based on available resources and customer needs **Analyze:** The qualities of successful entrepreneurs, compare different business ideas, and identify the challenges and risks involved in starting a business
	October	Chapter No. -2 JavaScript Part 2 (functions, object)	**Students will be able to:** **Remember:** JavaScript functions and objects, identify their syntax, and recall the purpose of parameters, arguments, return statements, and object properties and methods **Understand:** The importance of functions in code reusability and describe how objects store data in properties and perform actions through methods **Apply:** The gained knowledge to create and call JavaScript functions, pass arguments, return values, and create objects with properties and methods to perform simple programming tasks **Analyze:** The difference between functions and objects, examine JavaScript code to identify errors, and predict the output of programs involving functions and objects
		Chapter No. – 3 Canva & Adobe Express	**Students will be able to:** **Remember:** The features and tools of Canva and Adobe Express and recall the basic principles of graphic design **Understand:** The use of templates, images, text, colours, shapes, and design elements in creating attractive digital graphics **Apply:** The gained knowledge to create posters, invitations, presentations, banners, and social media graphics using Canva and Adobe Express **Analyze:** The features of Canva and Adobe Express and evaluate different graphic designs, and identify suitable design elements for a given purpose

		PREPARATORY EXAMINATION
	November	**PREPARATORY EXAMINATION & REVISION OF SYLLABUS FOR PRE-BOARD EXAMINATION**
	December	**PRE-BOARD EXAMINATION**
	January	**CBSE PRACTICAL AND INTERNAL ASSESSMENT**
	February & March	**CBSE BOARD EXAMINATION**

Yoga

Book Prescribed: CBSE Resources			
	Months	**Content**	**Learning Outcomes**
TERM-I	**March - April & May**	Chapter No. :1 Communication Skills-IV (Employability Skills)	**Students will be able to:** **Remember**: The types, the elements of the communication process, the 7 Cs of effective communication and barriers to communication **Understand:** The importance of effective communication in daily life and the workplace, non-verbal communication cues and the difference between formal and informal communication **Apply:** Effective communication in role-plays and presentations using proper tone, pitch, and body language **Analyze:** The difference between effective and ineffective communication styles, real-life or simulated scenarios to identify communication gaps or breakdowns and the impact of communication barriers on relationships or work performance
		Unit 1 – Introduction to Yoga and Yogic Practices-II	**Students will be able to:** **Remember:** Define Yoga and explain its origin, history, and development in India.Recall basic terms like Asana, Pranayama, and Meditation. **Understand**:Explain the meaning, aims, and importance of Yoga. Describe the role of Yoga in physical, mental, and spiritual well-being. **Apply:**Demonstrate simple yogic practices (basic asanas and breathing techniques). Practice correct posture and breathing for relaxation and stress reduction. **Analyze:** Analyze the impact of Yoga on stress management and lifestyle diseases. Compare Yoga with other physical activities in terms of benefits and outcomes.
	June	**SUMMER BREAK**	
		UNIT-2 Self Management Skills II (Employability Skill)	**Students will be able to:** **Remember:** The definition of self-management, its key skills such as self-discipline, motivation, organization and recall techniques for managing time, stress, and emotions effectively **Understand:** The importance of self-management in personal and academic life and the consequences of poor selfmanagement, importance of self discipline in forming habits and routines to yield productivity **Apply:** The knowledge of SMART goals for personal or academic growth, time management tool and stress-reducing

	July		strategies to organize tasks **Analyze:** Effective vs. ineffective self-management strategies in different scenarios, obstacles to self-management and how self- management impacts academic performance and relationships
		UNIT-2 Introduction to Yoga Texts- II (Yoga)	**Students will be able to:** **Remember:**Recall important Yoga texts such as *Hatha Yoga Pradipika*, *Gheranda Samhita*, and *Shiva Samhita*. Identify the author of *Hatha Yoga Pradipika* (Swami Swatmarama). **Understand:**Explain the meaning and importance of Yoga texts in understanding yogic practices.Describe the basic content of *Hatha Yoga Pradipika* (Asana, Pranayama, Mudra, Samadhi). Understand that these texts provide practical and philosophical guidance for Yoga. **Apply:**Apply teachings from Yoga texts in performing basic yogic practices (asana and breathing). Follow simple guidelines from texts like discipline, posture, and breathing control. **Analyze:**Analyze how Yoga texts guide physical, mental, and spiritual development. Compare different Yoga texts in terms of their focus (practical vs philosophical). Evaluate the relevance of ancient Yoga texts in modern lifestyle.
	August	**PERIODIC TEST I**	
		UNIT- 3 Information & Communication Technology Skills (Employability Skill)	**Students will be able to:** **Remember:** Basic keyboard shortcuts and functions, computer system parts and common ICT tools **Understand:** The importance of ICT in education, work, and daily life and describe key software functions, digital communication tools and basic user interface elements **Apply:** The acquired knowledge to use word processors for document creation and formatting, send and receive emails with attachments, safely search the internet, and create basic slide presentations **Analyze:** ICT's impact on communication, learning, and work and cyber safety issues with prevention strategies
TERM-II	**September**	Unit 3 - Yoga for Health Promotion (Yoga)	Students will be able to: **Remember:** The components of Yoga and recall common lifestyle diseases **Understand:** The role of Yoga in maintaining physical and mental health, stress management and emotional balance **Apply:** Simple asanas and breathing exercises for health benefits and use Yoga as a daily routine for maintaining a healthy lifestyle **Analyze:** The impact of Yoga on lifestyle diseases like hypertension, obesity, and anxiety and how regular Yoga practice promotes overall well-being and quality of life
		UNIT-4 Entrepreneurial Skills II (Employability Skill)	Students will be able to: **Remember:** Meaning of assessment and evaluation, list assessment types and tools, and recall the objectives of student evaluation in learning **Understand:** Entrepreneurship's role in economic growth and jobs, outline the business startup process, and the innovation and problem-solving involved **Apply:** The gained knowledge to create a simple business plan addressing a problem using tools like SWOT analysis to present ideas **Analyze:** Success stories of successful entrepreneurs to identify traits and strategies and analyze business feasibility, risks and rewards, and market needs for relevant ideas

	October	UNIT-5 Green Skills II (Employability Skill)	Students will be able to: **Remember:** Meaning of green skills, sustainable development, and eco-friendly practices; list the 5 Rs of sustainability; identify green jobs and industries; and recall the importance of conserving natural resources **Understand:** The need for environmental sustainability, human impacts on the environment, discuss the role of green skills, and understand the connection between the green economy and job opportunities **Apply:** The gained knowledge to practice eco-friendly habits, engage in green initiatives, apply sustainability in daily tasks, and use digital tools to raise awareness on green living **Analyze:** Traditional and sustainable practices, and examine youth and education's role in promoting a green future
		PREPARATORY EXAMINATION	
	November	**PREPARATORY EXAMINATION & REVISION OF SYLLABUS FOR PRE-BOARD EXAMINATION**	
	December	**PRE-BOARD EXAMINATION**	
	January	**CBSE PRACTICAL AND INTERNAL ASSESSMENT**	
	February & March	**CBSE BOARD EXAMINATION**	

Psychology

Book Prescribed: NCERT			
	Months	**Content**	**Learning Outcomes**
TERM-I	**March - April & May**	Chapter No. 1: Variations in Psychological attributes	**Students will be able to:** **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 psychological testing
		Chapter No. 2: Self and Personality	**Students will be able to:** **Remember:** Concept and definition of self-concept, personality, traits, types **Understand**: The difference between self and personality ; Components of self (self-esteem, self-efficacy, self-regulation) and the role of cultural and social factors in shaping personality **Apply:** The acquired knowledge to use psychological tests to assess 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 : Meeting 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 difference between effective and ineffective coping strategies, and how individual differences (personality, gender, resources) affect stress response
	June	**SUMMER BREAK**	
	July	Chapter No. 4: Psychological Disorders	**Students will be able to:** **Remember:** Recall the names, types, key features, and classification of various psychological disorders such as anxiety disorders, mood disorders, schizophrenia, and behavioural disorders. **Understand:** Explain the nature, causes, and characteristics of different psychological disorders, including biological, psychological, and socio-cultural factors, and understand the basis of their classification systems. **Apply:**Use knowledge of psychological disorders to identify symptoms in real-life situations, interpret case studies, and develop sensitivity towards individuals experiencing psychological distress. **Analyze:** Differentiate between various psychological disorders by comparing their symptoms, causes, and consequences, and examine how multiple factors interact in the development and manifestation of these disorders.
	August	**PERIODIC TEST I**	
		Chapter No. 5 : Therapeutic approaches	**Students will be able to:** **Remember:** Recall the names, key features, techniques, and goals of various therapeutic approaches and types of mental health professionals. **Understand:** Explain the principles, processes, and underlying assumptions of different therapies and the importance of the therapeutic relationship and ethics. **Apply:** Use basic therapeutic principles to understand everyday problems, suggest coping strategies, and interpret simple case situations. **Analyze:** Compare different therapeutic approaches in terms of their techniques, effectiveness, and suitability for different psychological disorders.
TERM-II		Chapter 6 - Attitude and Social Cognition	**Students will be able to:** **Remember:** Key concepts such as attitude, social cognition, stereotypes, prejudice, and discrimination **Understand:** How attitudes are formed, maintained, and

	September		changed; relationship between attitudes and behaviour **Apply:** Concepts like persuasion and cognitive dissonance to real-life situations **Analyze:** Causes and consequences of prejudice and discrimination in society
	October	Chapter 7 - Social Influence and group processes.	**Students will be able to:** **Remember:** Key concepts such as social influence, conformity, compliance, obedience, and group processes **Understand:** How individuals are influenced by others in social settings; functioning of groups, including processes like cooperation, competition, and conflict **Apply:** Concepts of social influence to real-life situations such as peer pressure and decision-making. Use strategies to manage group behaviour and promote cooperation **Analyze:** Factors affecting conformity, obedience, and group dynamics and evaluate causes of conflict and assess methods for effective conflict resolution and group functioning
		PREPARATORY EXAMINATION	
	November	**PREPARATORY EXAMINATION & REVISION OF SYLLABUS FOR PRE-BOARD EXAMINATION**	
	December	**PRE-BOARD EXAMINATION**	
	January	**CBSE PRACTICAL AND INTERNAL ASSESSMENT**	
	February & March	**CBSE BOARD EXAMINATION**	