



DELHI PUBLIC SCHOOL DHENKANAL

Session-2023-24

CLASS XII

Month	SUBJECT	Topics to taught
APRIL	ENGLISH	: Flamingo : The Last Lesson ,My Mother at Sixty-Six Vistas : The Third Level Creative Writing : Notice
	MATH	Relations and Functions Inverse Trigonometric Functions Matrices (Continued)
	PHYSICS	Electrostatics & Current electricity
	CHEMISTRY	: Lesson-2 : Solution : Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, Raoult's law, colligative properties - relative lowering of vapour pressure, elevation of boiling point Lesson-10 : Haloalkanes & Haloarenes : Haloalkanes: Nomenclature, nature of C–X bond, physical and chemical properties, optical rotation mechanism of substitution reactions. : Haloarenes: Nature of C–X bond, substitution reactions (Directive influence of halogen in monosubstituted compounds only).
	BIOLOGY	Ch 3-Human Reproduction
	COMPUTER SCIENCE	Computer Networks: Data communication terminologies: Transmission media: Network devices Network topologies and Network types: ● Network protocol:
	PHYSICAL EDUCATION	<i>Management of Sporting events</i> <i>Children & women in sports</i>
MAY	ENGLISH	Flamingo : Lost Spring, Keeping Quiet Vistas : The Tiger King
	MATHS	Matrices (Continued)
	PHYSICS	Electrostatics & Current electricity
	CHEMISTRY	Lesson-2 : Solution : depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties, abnormal molecular mass, Vant Hoff factor. Lesson-10 : : Haloalkanes & Haloarenes : Uses and environmental effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT

	BIOLOGY	Human Reproduction,Ch 4 –Reproductive Health
	COMPUTER SCIENCE	Unit I: Computational Thinking and Programming – 2 Functions: types of function (built-in functions, functions defined in module, user defined functions)
	PHYSICAL EDUCATION	Yoga as preventive measures for lifestyle disease
JUNE	ENGLISH	Flamingo: Deep Water Vistas: Journey to the end of the Earth Creative Writing: Invitations Formal and Informal
	MATHS	: Matrices Determinants
	PHYSICS	Electrostatics & Current electricity
	CHEMISTRY	: Lesson-3 : Electrochemistry : Redox reactions, EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells, Relation between Gibbs energy change and EMF of a cell, Lesson-11 : Alcohols Phenols & Ethers : Alcohols: Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only),identification of primary, secondary and tertiary alcohols, mechanism of dehydration, uses with special reference to methanol and ethanol
	BIOLOGY	: Ch 2—Sexual Reproduction in Flowering Plants
	COMPUTER SCIENCE	File Handling-, Text file, Binary file, CSV file,
	PHYSICAL EDUCATION	Physical Education & Sports for CWSN
JULY	ENGLISH	Flemingo: A Thing of Beauty ,The Rat Trap Vistas: The Enemy Creative Writing: Replies to invitations
	MATHS	Continuity and Differentiability Application of Derivatives
	PHYSICS	Magnetic Effect of Current & Magnetism
	CHEMISTRY	Lesson-3 : Electrochemistry : conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch’sLaw, electrolysis and law of electrolysis (elementary idea), dry cell-electrolytic cells and Galvanic cells, lead accumulator, fuel cells, corrosion. Lesson-11 : Alcohols Phenols & Ethers : Phenols: Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol,electrophilic substitution reactions, uses of phenols. Ethers: Nomenclature,methods of preparation
	BIOLOGY	Ch 5---Principles of Inheritance and Variation,Ch 6—Molecular Basis of Inheritance
	COMPUTER SCIENCE	File Handling CSV file, Data Structure: Stack, operations on stack (push & pop)

	PHYSICAL EDUCATION	Sports and nutrition
AUGUST	ENGLISH	Flamingo : Indigo,A Roadside Stan Vistas The Enemy(contd) Creative Writing : Letter writing (Editor- issues of public interest)
	MATHS	Integrals Application of Integrals
	PHYSICS	Electromagnetic Induction & Alternating Current , Electromagnetic Waves
	CHEMISTRY	: Lesson-4 : Chemical Kinetics : Rate of a reaction (Average and instantaneous),factors affecting rate of reaction: concentration, temperature, catalyst; order and molecularity of a reaction, rate law and specific rate constant, integrated rate equations and half-life (only for zero and first order reactions), concept of collision theory (elementary idea, no mathematical treatment), activation energy, Arrhenius equation. Lesson-11 : Alcohols Phenols & Ethers : physical and chemical properties, uses. Lesson-12 : Aldehydes Ketones & Carboxylic Acids : Aldehydes and Ketones: Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties, mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes, uses.
	BIOLOGY	Ch 7-Evolution,Ch 8-Human Health and Diseases
	COMPUTER SCIENCE	: Unit II: Computer Networks Data Structure:- implementation of stack using list
	PHYSICAL EDUCATION	Test and Measurement in Sports
SEPTEMBER	ENGLISH	Flamingo : Poets and Pancakes,Aunt Jennifer's Tigers Vistas : On The Face of It Creative Writing : Letter writing (Application)
	MATHS	Linear Programming Differential Equations (Continued)
	PHYSICS	Ray Optics,Wave Optics
	CHEMISTRY	Lesson-8 : d- & f - block elements : General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first-row transition metals – metallic character, ionization enthalpy, oxidation states, ionic radii, colour, catalytic property, magnetic properties, interstitial compounds, alloy formation, preparation and properties of K ₂ Cr ₂ O ₇ and KMnO ₄ .Lanthanoids – Electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction and its consequences. Actinoids - Electronic configuration,oxidation states and comparison with lanthanoids .Lesson-12 : Aldehydes Ketones & Carboxylic Acids : Carboxylic Acids:Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.
	BIOLOGY	Ch 10-Microbes in Human Welfare,Ch 13-Organism and Population
	COMPUTER SCIENCE	Unit II: Computer Networks Transmission media: Wired communication media (Twisted pair cable, Co-axial cable,

		<p>Fiber-optic cable), Wireless media (Radio waves, Micro waves, Infrared waves)</p> <p>Network devices (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card)</p> <p>Network topologies and Network types: types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree)</p> <p>Unit III: Database Management System</p> <p>Database Management:</p> <ul style="list-style-type: none"> Database concepts: introduction to database concepts and its need Relational data model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key)
	PHYSICAL EDUCATION	Physiology and injury in Sports
OCT	ENGLISH	<p>Flamingo : The Interview</p> <p>Vistas: Memories of childhood- I</p> <p>Creative writing: Report writing</p>
	MATHS	<p>Differential Equations</p> <p>Vector Algebra</p>
	PHYSICS	Dual nature of Radiation & Matter , Atoms & Nuclei
	CHEMISTRY	<p>Lesson-9 : Coordination compounds : Coordination compounds - Introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds. Bonding, Werner's theory, VBT, and CFT.Lesson-13 : Amines : Amines: Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary, secondary and tertiary amines. Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.</p>
	BIOLOGY	Ch 11-Biotechnology- Principles and Processes,Ch 12-Biotechnology and its Applications
	COMPUTER SCIENCE	<p>Database Management:</p> <p>Structured Query Language: introduction, Data Definition Language and Data Manipulation Language, data type (char(n), varchar(n), int, float, date), constraints (not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table, alter table (add and remove an attribute, add and remove primary key)</p>
	PHYSICAL EDUCATION	: Psychology & Sports
NOV	ENGLISH	<p>Flamingo : Going Places</p> <p>Vistas: Memories of childhood- II</p> <p>Creative Writing: Article writing</p>
	MATHS	<p>3-D Geometry</p> <p>Probability</p>
	PHYSICS	Electronic Device

	CHEMISTRY	<p>Lesson-9 : Coordination compounds : structure and stereoisomerism, the importance of coordination compounds (in qualitative analysis, extraction of metals and biological system).</p> <p>Lesson-14: Biomolecules: Carbohydrates - Classification (aldoses and ketoses), monosaccharides (glucose and fructose), D-L configuration oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen); Importance of carbohydrates. Proteins -Elementary idea of - amino acids, peptide bond, polypeptides, proteins, structure of proteins - primary, secondary, tertiary structure and quaternary structures (qualitative idea only), denaturation of proteins; enzymes. Hormones - Elementary idea excluding structure. Vitamins -Classification and functions. Nucleic Acids: DNA and RNA.</p>
	BIOLOGY	Ch 14-Ecosystem, Ch 15-Biodiversity and its Conservation
	COMPUTER SCIENCE	<p>Unit III: Database Management System</p> <p>aggregate functions (max, min, avg, sum, count), group by, having clause, joins: cartesian product on two tables, equi-join and natural join</p> <p>Interface of python with an SQL database: connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using fetchone(), fetchall(), rowcount, creating database connectivity applications</p>
	PHYSICAL EDUCATION	Training in Sports
DEC	ENGLISH	ASL REVISION
	MATHS	REVISION
	PHYSICS	REVISION
	CHEMISTRY	REVISION
	BIOLOGY	REVISION
	COMPUTER SCIENCE	REVISION
	PHYSICAL EDUCATION	REVISION
JAN	ENGLISH	REVISION/TEST
	MATHS	REVISION/TEST
	PHYSICS	REVISION/TEST
	CHEMISTRY	REVISION/TEST
	BIOLOGY	REVISION/TEST
	COMPUTER SCIENCE	REVISION/TEST
	PHYSICAL EDUCATION	REVISION/TEST
FEBRUARY	ENGLISH	REVISION/TEST
	MATHS	REVISION/TEST
	PHYSICS	REVISION/TEST

	CHEMISTRY	REVISION/TEST
	BIOLOGY	REVISION/TEST
	COMPUTER SCIENCE	REVISION/TEST
	PHYSICAL EDUCATION	REVISION/TEST
MARCH	ENGLISH	REVISION / BOARD EXAM
	MATHS	REVISION / BOARD EXAM
	PHYSICS	REVISION / BOARD EXAM
	CHEMISTRY	REVISION / BOARD EXAM
	BIOLOGY	REVISION / BOARD EXAM
	COMPUTER SCIENCE	REVISION / BOARD EXAM
	PHYSICAL EDUCATION	REVISION / BOARD EXAM