

NEET TEST SCHEDULE (2024-25)*

D	-		Subject	
Date	а	Physics	Chemistry	Biology
26-May-24	S u n d a y	Unit & Measurement Need for measurement, Units of measurement, System of units, S.I. unit, Fundamental & derived unit, Accuracy & Precision of measuring instruments, Errors in measurement, Significant figures, Dimension of physical quantities & Application. Thermal properties of matter, Thermal expansion of solids &liquids.	Classification of Elements and Periodicity in Properties Modern periodic law and present form of the periodic table. s, p. d and f block elements- periodic trends in properties of elements atomic and ionic radii. ionization enthalpy, electron gain enthalpy. valency. oxidation states. and chemical reactivity'	The Living World (Botany)What is living? Differencebetween living and non living,Diversity in the living world,Binomial nomenclature,Classification, Systematics,Concept of species andtaxonomical hierarchy.Biological Classification(Zoology)Two kingdom systemFive kingdom classification;salient features andclassification of Monera;Protista and Fungi into majorgroups; lichens; Viruses andViroids.
09-June-24	S u n d a y	Vectors Types of vectors, Unit vectors, Resolution of vectors in a plane rectangular components, Addition & Subtraction of vectors, Scalar & vector products of vectors, Direction Cosines, Area of triangle & parallelogram. Calorimetry	Purification andCharacterisation of OrganicCompoundsPurification - Crystallization.Sublimation, distillation,differential extraction, andchromatography - principlesand their applications.Qualitative analysis -Detection of nitrogen,sulphur, phosphorus andhalogens.Quantitative analysis (basic	Plant Kingdom (Botany) What is algae ?Introduction of classification system, Classification of algae: Chlorophyceae, Pheophyceae, Rhodophyceae, Division of algae pigment and store food, General introduction of Bryophytes (liver warts, masses), General introduction of Pteridophytes, General introduction of
		26-May-24 S u n d a y y S u n d a y	26-May-24S yUnit & Measurement Meed for measurement, Units of measurement, System of units, S.I. unit, Fundamental & derived unit, Accuracy & Precision of measuring instruments, Errors in measurement, Significant figures, Dimension of physical quantities & Application.D9-June-24S u n d a yVectors Types of vectors, Unit vectors, Resolution of vectors in a plane rectangular components, Addition & Subtraction of vectors, Direction Cosines, Area of triangle & parallelogram.	Date Date Date Physics Chemistry 26-May-24 s Unit & Measurement Main of measurement, Units of measurement, System of units, S.I. unit, Fundamental & derived unit, Accuracy & Precision of measuring instruments, Errors in measurement, Significant quantities & Application. Modern periodic taw and present form of the periodic table. s, p. d and f block elements periodic trends in properties of elements atomic and ionic radii. ionization enthalpy. electron gain enthalpy. valency. oxidation states. and chemical reactivity' D9-June-24 S Vectors y Vectors Thermal properties of matter, Thermal expansion of solids & liquids. D9-June-24 S Vectors y Thermal properties of in a plane rectangular components, Addition & Subtraction of vectors, Direction Cosines, Area of triangle & parallelogram. Purification and chromatography - principles and their applications. 0 Galorimetry Classification of or introgen, sulphur, phosphorus and halogens.

	of carbon bydrogen	
Principle of Calorimetry, Latent heat of fusion and vaporization. <u>Experimental Skills</u> Specific heat capacity of a	nitrogen.halogens. sulphur. Phosphorus. Problems in organic Quantitative analysis Some Basic Concepts In chemistry Tetravalency of carbon: Shapes of simple molecules - hybridization (s and p): classification of organic compounds based on functional groups: and those containing halogens oxygen,	Animal Kingdom (Zoology) Classification of Animals, Symmetry, Diploblastic and Triploblastic, Organisation,Coelom, Segmentation, Notochord, Classification of animals, Phylum – Porifera, Coelenterata (Cnidaria), Ctenophora, Platyhelminthes, Aschelminthes, Annelida, Arthropoda, Mollusca, Echinodermata, Hemichordata, Chordata
Kinematics-1	Homologous series: Isomerism - structural and stereoisomerism. Nomenclature (Trivial and IUPAC) Some Basic Concept in	Morphology of Plants:
s u n Frame of reference, Motion in straight line, Position-time graph, Speed & Velocity, Uniform & non-uniform motion, Average speed & instantaneous velocity, Uniform accelerated motion, Velocity time & position time graph for uniformly accelerated motion. <u>Thermal Conduction.</u>	atomic theory: Concept of atom, molecule, element. And compound:: Laws of chemical combination; Atomic and molecular masses, mole concept, molar mass, percentage composition, empirical and molecular formulae: Chemical equations and stoichiometry.	Morphology and modifications; Tissues; Anatomy and functions of different parts of flowering plants: Root, stem, leaf, inflorescence- cymose and recemose, flower, fruit and seed (To be dealt along with the relevant practical ofthe Practical Syllabus) Family (Malvaceae, Cruciferae, Leguminoceae, Compositae, Graminae). Anatomy of Flowering Plants What is the Tissues? Tissue system, (simple tissue, compound tissue) Anatomy of Dicotyledonous and Monocotyledonous plants, (root,stem, leaf),
	Principle of Calorimetry, Latent heat of fusion vaporization. Experimental Skills Specific heat capacity of a given (i) solid and (ii) liquid by method of mixtures mathematics Frame of mixtures Frame of Frame of Frame of reference, Motion in straight line, Position-time graph, Speed Velocity, Uniform a non-uniform wotion, Average speed & velocity, Uniform a non-uniform motion, Average speed & Velocity time & position time graph for uniformly accelerated motion, Velocity time & position time graph for uniformly accelerated motion. Heat transfer, Conduction. Heat thermal conductivity. for accelerated motion.	Principle of Calorimetry, Latent heat of fusion and vaporization.nitrogen.halogens. sulphur. Phosphorus. Problems in organic Quantitative analysisExperimental SkillsSome Basic Concepts In chemistrySpecific heat capacity of a given (i) solid and (ii) liquid by method of mixturesTetravalency of carbon: Shapes of simple molecules - hybridization (s and p): classification of organic compounds based on functional groups: and those containing halogens oxygen, nitrogen and sulphur, Homologous series: Isomerism - structural and stereoisomerism. Nomenclature (Trivial and IUPAC)S u n d a yKinematics-1Some Basic Concept in chemistryFrame of reference, Motion in straight line, Position-time graph, Speed & Velocity, Uniform accelerated motion.Some Basic Concept of atomic theory: Concept of atomic

			body radiation, Wein's displacement law,		
4	14-July-24	S u n d a		MODEL-1 T-1 TO T-3	
5.	21-July-24		Motion in plane (Kinematics-2) Relative velocity. Motion in plane, Cases of uniform velocity & projectile motion,Circular motion Kinetic Theory of Gases Perfect gas equation, Work done on compressing a gas, Kinetic theory of gases, Degree of freedom, Specific heat capacities, Mean free path	Atomic StructureNatureofelectromagneticradiation, photoelectric effect;Spectrumofatom.Bohrmodelofahydrogenatom.Bohrmodelofahydrogenatom-itspostulates,derivationoftheelectronandradiioftheelectronandradiiofthedifferentorbits,limitationsofBohr'smodel;Dualnatureofmatter,deBroglie'srelationship.Heisenberguncertaintyprinciple.Elementary ideas of quantummechanics,quantummechanics,quantummechanics,quantummechanicalmodeloftheatom,itsimportantfeatures.Concept ofatomic orbitals asone-electronwavefor1sand 2sorbitals:quantumnumbersquantumnumbersquantumnumbersangularmomentum,andmagneticquantumnumber:Rulesforfillingelectronsnandspinandspinandspinandspinand <t< td=""><td>Structural Organisation in Animals: Animal tissues; Morphology, anatomy and functions of different systems (circulatory, respiratory, nervous and reproductive) of an insect (Frog) (Brief account only)Cockroach Cell : The Unit of Life (Botany) Cell theory and cell as the basic unit of life;Structure of prokaryotic and eukaryotic cell; Plant celland animal cell; Cell envelope, cell membrane, cellwall; Cell organelles-structure and function; Endomembrane system-endoplasmic reticulum, Golgi bodies, lysosomes, vacuoles; mitochondria, ribosomes, plastids, micro bodies; Cytoskeleton, cilia, flagella, centrioles; Nucleus</td></t<>	Structural Organisation in Animals: Animal tissues; Morphology, anatomy and functions of different systems (circulatory, respiratory, nervous and reproductive) of an insect (Frog) (Brief account only)Cockroach Cell : The Unit of Life (Botany) Cell theory and cell as the basic unit of life;Structure of prokaryotic and eukaryotic cell; Plant celland animal cell; Cell envelope, cell membrane, cellwall; Cell organelles-structure and function; Endomembrane system-endoplasmic reticulum, Golgi bodies, lysosomes, vacuoles; mitochondria, ribosomes, plastids, micro bodies; Cytoskeleton, cilia, flagella, centrioles; Nucleus
			DULE/FST/24-25	completely filled orbitals'	

				Redox Reaction	
6.	04-Aug-24	S u d	Laws of Motion	Electronic concepts of oxidation and reduction , redox reactions, oxidation number, rules for assigning oxidation number, balancing of redox reaction. Chemical Bonding And Molecular Structure	Biomolecules (Zoology) Biomolecules structureand
		a y	Intuitive concept of force, Inertia, Newton's first law of motion, Momentum & Newton's second law of motion, Impulse, Newton's third law of motionConservation of linear momentum & its application. Equilibrium of concurrent forces, Static & Kinetic friction, Laws of friction, Rolling friction, Lubrication.	Kossel - Lewis approach to chemical bond formation, the concept of ionic and covalent bonds' Ionic Bonding: Formation of ionic bonds, factors affecting the formation of ionic bonds; calculation of lattice enthalpy. covalent Bonding: concept of electronegativity. Fajan's rule, dipole moment: valence Shell Electron Pair Repulsion (VSEPR) theory and shapes of simple molecules. Quantum mechanical approach to covalent bonding: Valence bond theory - its important features. the	function of proteins, carbohydrates, lipids, nucleic acids; Enzymes-types, properties, enzyme action. Cell Cycle and Cell Division (Botany) Cell cycle, mitosis, meiosis and their significance
			Thermal equilibrium, Zeroth law of thermodynamics Work& internal energy, First law of thermodynamics. Isothermal, Adiabatic process, Second law of thermodynamics	concept of hybridization involving s, p, and d orbitals; Resonance' Molecular orbital Theory - Its important features. LCAOs, 'types of molecular orbitals (bonding, antibonding), sigma and pi- bonds, molecular orbital electronic configurations of homonuclear diatomic molecules, the concept of bond order, bond length, and bond energy Elementary idea of metallic bonding. Hydrogen bonding and is applications.	Photosynthesis as a means of Autotrophic nutrition; Site of photosynthesis takeplace; pigments involved in Photosynthesis Photochemical and biosynthetic phases of photosynthesis; Cyclic and non cyclic and photophosphorylation; Chemiosmotichypothesis; Photorespiration C3 and C4 pathways; Factors affecting photosynthesis

7.	25-Aug-24	S	Work Power and Energy	Chemical Equilibrium	<u>Respiration in Plants</u> (Botany)
		u n	Work done by a constant	Meaning of equilibrium, the	(Dotany)
		d	force, Work done by a	concept of dynamic	Exchange gases;
		а	variable force (one	equilibrium.	Cellularrespiration-
		У	dimensional case), Graphical	Equilibria involving physical processes: Solid-liquid, liquid-	glycolysisfermentation(anaero bic), TCAcycle and electron
			interpretation of work done,	gas and solid-gas equilibria,	transport system (aerobic);
			Conservative & Non conservative Forces, Non	Henry's law. General characteristics of equilibria,	EnergyrelationsNumber of ATP molecules
			conservative Forces, Non conservative forces, Power,	involving physical processes.	generated;Amphibolic
			Energy is different from	Equilibrium involving	pathways; Respiratory
			power, Work-Energy	chemical processes: Law of chemical equilibrium,	quotient
				equilibrium constants (K_{P} and	Plant Growth and
			Theorem, Conservative force as negative gradient of	K_c) and their significance, the	Development (Botany)
			as negative gradient of Potential Energy, Work Done	significance of ΔG and ΔG^0 in	Seedgermination; Phases of
			in pulling the chain against	chemical equilibrium, factors affecting equilibrium	Plant growth and plant
			gravity, Conservation of momentum (Explosion of	concentration, pressure,	growthrate; Conditions of
			momentum (Explosion of bomb), Collision, Perfectly	temperature, the effect of	growth; Differentiation, dedifferentiation and
			inelastic collision.	catalyst; Le Chatelier's principle.	dedifferentiation and redifferentiation; Sequence of
			Wave-I	L	developmental process in a
			Progressive wave, Speed of	Reaction Mechanism	plant cell; Growth regulators- auxin, gibberellin, cytokinin,
			mechanical wave	Covalent bond fission -	ethylene, ABA;
				Homolytic and heterolytic:	Breathing and Exchange of
				free radicals. carbocations.	<u>Gases (Zoology)</u>
				and carbanions: stability of carbocations and free	Respiratory organs in animals
				radicals. Electrophiles and	Respiratory system in
				nucleophiles.	humans; Mechanism of breathing and its regulation in
				Electronic displacement in	humans-Exchange of gases,
				a covalent bond	transport of gases and
				Inductive eflect, electromeric	regulationof respiration Respiratory volumes;
				eflect. resonance. And hyper	Disorders related to
				conjugation.	respiration-Asthma,
				Common types of organic reactions- Substitution.	Emphysema, Occupational respiratory disorders.
				addition. elimination, and	, , ,
			Notice of Oceaning of	rearrangement.	Pady Eluida and Circulation
8.	15-Sept-24	S	Motion of System of		Body Fluids and Circulation (Zoology)
		u	Particles	weak. and strong electrolytes,	7-2010911
		n d	Center of Mass of a two	ionization of electrolytes,	Composition ofblood, blood
		a	particle system, Momentum	various concepts of acids and	groups, coagulation of
		У	conservation & center of	bases (Arrhenius Bronsted -	g. sepe, coagaiation of

		,			
			mass motion, Center of mass	Lowry and Lewis) and their	blood;Composition of lymph
			of a rigid body, Uniform rod.	ionization, acid-base	and its function;
			Moment of force, Torque,	equilibria (including	Humancirculatory system-
			Angular momentum,	multistage ionization)	Structure of human heart and
			Conservation of angular	ionization constant ionization	bloodvessels; Cardiac cycle,
			momentum.	of water. pH scale, common	cardiac output, ECG,
				ion effect, Hydrolysis of salts	Doublecirculation; Regulation
				and pH of their solution, The	of cardiac activity; Disorders
			<u>Rigid Body</u>	solubility of sparingly soluble	of circulatory system
				salts and solubility products,	Hypertension, Coronary
			Equilibrium of rigid bodies,	buffer solution	
			Rigid bodies rotation &		
			equation of rotational motion,		pectoris, Heart failure
			Moment of inertia, Radius of		
			gyration.		Excretory Products and
					their Elimination (Zoology)
					Modes of excretion-
			Weye II		Ammonotelism,
			<u>Wave-II</u>		ureotelism,uricotelism;
			Principle of superposition,		Human excretory system-
			Reflection of wave, Beats.		structure andfunction; Urine
			Interference, Standing wave		formation, Osmoregulation;
			in string, Organ pipe.		Regulationof kidney function-
					Renin-angiotensin, Atrial
					Natriuretic Factor, ADH and
			Experimental Skills		Diabetes insipidus; Role
					ofother organs in excretion;
			Metre Scale - the mass of a		Disorders; Uraemia,
			given object by the principle		Renalfailure, Renal calculi,
			of moments'		Nephritis; Dialysis and
					artificia Ikidney
		S			
9.	22-Sept-24	u		MODEL-2	
		n d			
		a		T-1 TO T-8	
		у			
		S	Gravitation	Hydrocarbons	Locomotion and Movement
10.	06-Oct-24	u			
		n d	Kepler's laws of planetary	Classification' isomerism.	Types of movement ciliary,
		a	motion, Universal law of	IUPAC nomenclature, general	flagellar, muscular; Skeletal
		У	gravitation,	methods of preparation,	muscle contractile proteins
			Acceleration due to gravity	properties, and reactions.	and muscle contraction;
			&variation with altitude & depth.		Skeletal system and its
			Gravitational potential energy,	Alkanes - Conformations:	functions; Joints; Disorders of
		1	DULE/F31/24-25	<u>- and o comornations</u> .	

			Potential, Escape velocity, Orbital	Sawhorse and Newman	muscular and skeletal system
				halogenation of alkanes.	My astheniagravis, Tetany,
			velocity of satellite, Geo- stationary satellites.	projections (of ethane):	Muscular dystrophy, Arthritis,
				Mechanism of halogenation	Osteoporosis, Gout
				of alkanes.	•
			Dual Nature of Radiation		Neural Control and
			and Matter	<u>Alkenes</u> - Geometrical	Coordination (Zoology)
			Photoelectric effect, Hertz	isomerism: Mechanism of	
			and Lenard's observations;	electrophilic addition: addition	Neuron and nerves; Nervous
			Einstein's photoelectric	of hydrogen. halogens, water.	
			equation- particle nature of	, , ,	system in humans- central
			light.	Hydrogen halides	nervous system, peripheral
			Matter waves- wave nature of	(Markownikoffs and peroxide	nervous system and
				effects) ozonolysis and	visceralnervous system;
			particles, de Broglie relation.	polymerization.	Generation and conduction of
				Alkynes - Acidic character:	nerveimpulse;
				Addition of hydrogen.	
				halogens. water. and	
				hydrogen halides:	
				Polymerization.	
				Aromatic hydrocarbons -	
				Nomenclature. benzene -	
				structure and aromaticity,:	
				Mechanism of electrophilic	
				substitution: halogenation,	
				nitration. Friedel - craft's	
				alkylation and acylation,	
				directive influence of the	
				functional group in mono-	
				substituted benzene	
			Oscillation	Chemical Thermodynamics	Chemical Coordination and
11.	27-Oct-24	S			Integration
		u n	Periodic motion, Frequency,	Fundamentals of	
		d	Displacement, Simple	thermodynamics: system and	Endocrine glands and
		а	harmonic motion, Equation, Oscillation of spring,	surroundings, extensive and	hormones; Human endocrine
		У	Restoring force, Energy in	intensive properties' state functions, types of processes.	system-Hypothalamus,
			S.H.M., Free oscillation	The first law of	Pituitary, Pineal, Thyroid, Parathyroid, Adrenal,
			Atomic structure	thermodynamics - concept of	Pancreas, Gonads,
			Rutherford's atomic model	work, heat internal energy	Mechanism of hormone
			Bohr's atomic model,	and enthalpy, heat capacity,	action Role of hormones as
				molar heat. capacity; Hess's	messengers and regulators,
			Different spectral series	law of constant heat	Hypo-and hyperactivity and
			Hydrogen spectrum.	summation; Enthalpies of	related disorder.g. Dwarfism,
			Experimental Okilla	bond dissociation,	Acromegaly, Cretinism,
			Experimental Skills	combustion' formation, atomization. sublimation.	goiter, exophthalmic goiter,
		LUE	ULE/FST/24-25	atomization. Subilmation.	

	Simple pendulum-dissipation of energy by plotting a graph between the square of amplitudeand time. Speed of sound in air at room temperature using a resonance tube	The second law of thermodynamics-Spontaneity of processes: ΔS of the universe and ΔG of the system as criteria for	diabetes, Addison's disease Sexual Reproduction in Flowering Plants (Botany) Flower structure, Pre fertilization , Structure and events, Stamen, Microsporangium and Pollen Grain, Microsporogenesis, The Megasporangium (Ovule), Megasporogenesis, Pollination-types, agencies and examples, Out breeding devices, Pollen-Pistil interaction; Double fertilization : Structures and Events, (Endosperm , Embryo, Seed), Apomixis and polyembryony
12.	 Electrostatics Electric charges & properties conductors, insulators, method of charging, coulomb's law between two point charges, principle of superposition, equilibrium of system of charges Electric field Electric field intensity for point charge & system of charges, electric field lines with properties, Nuclei (Composition & size of nucleus, Atomic masses, Mass energy relation, mass defect; Nuclear fission & fusion, Nuclear reactor, Nuclear Force & its 	factors affecting the rate of reactions: concentration, temperature. pressure' and catalyst: elementary and complex reactions, order and molecularity of reaction, rate law, rate constant and its units, differential and integral forms of zero and first-order reactions. their characteristics and half-lives, the effect of temperature on the rate of reactions. Arrhenius theory. activation energy and its calculation, collision theory of bimolecular gaseous reactions (no derivation). Organic Compounds <u>Containing Halogens</u>	Human Reproduction (Zoology)Male and female reproductive systems; Microscopic anatomy of testis and ovary; Gametogenesis, spermatogenesis &.Oogenesis; Menstrual cycle; Fertilisation, embryo development upto blastocyst formation, Implantation; Pregnancy and placenta formation (Elementary idea); Parturition (Elementary idea).Reproductive Health(Zoology)Need for reproductive health and prevention of sexually transmitted diseases (STD);

			properties.	General methods of preparation, properties, and reactions; Nature of C-X bond: Mechanisms of substitution reactions. Uses; Environmental effects of chloroform, iodo form freons, and DDT	Birth control-Need and Methods, Contraception and Medical Termination of Pregnancy (MTP); Amniocentesis; Infertility and assisted reproductive technologies – IVF, ZIFT, GIFT
13.	15-Dec-24	S u n d a y	Electric Potential & Gauss's Law Electric flux & Gauss theorem with application, electric potential due to point charge & system of charges. Expansion of coulomb's law with application, electric dipole, torque, electric potential energy, work done in rotating a dipole, Electric potential. Electrostatic Potential, Potential Energy Semiconductor and Electronic Materials Classification of Metals, Conductors & Semi- conductors & Semi- conductors on the basis of (Conductivity, Energy bands in solids (qualitative ideas only), Intrinsic Semi-conductor, Extrinsic Semi-conductor, Extrinsic Semi-conductor, Extrinsic Semi-conductor, Barrier potential, Semiconductor diode: I-V characteristics in Forward & reverse bias. Application of Junction Diode as a Rectifier & Filter (only qualitative idea), Special	Organic Compounds Containing OxygenGeneralmethodsofpreparation,properties,reactions, and uses.Alcohol, Phenol, EtherAlcohols:IdentificationAlcohols:Identificationofprimary,secondary,andtertiaryalcohols:mechanismofdehydration.Phenols:Acidicnature,electrophilicsubstitutionreactions:halogenation.nitrationandsulphonation.Reimer-Tiemann reaction.Ethers:Structure.Solutionprocentrationof solution - molarity, molality,morefraction.pressing the concentrationof solution - molarity, molality,more fraction.percentage (byvolume and mass both), thevapour pressure of solutionsand Raoult's law - Ideal and.non-ideal solutions, vapourpressure - composition, plotsforideal and non-idealsolutions:colligativeproperties of dilute solutions -a relative lowering of vapourpressure, depression orfreezing point the elevation of	

14.	29-Dec-24	S u n d a y	their I-V characteristics (LED, Photodiode), Solar cell, logic gates & combination of logic gates Experimental Skills Characteristic curves of a p-n junction diode in forward and reverse bias. Characteristic curves of a Zener diode and finding reverse break down voltage. Identification of Diode. LED. Resistor. A capacitor from a mixed collection of such items Capacitors Capacitors & capacitance. Spherical Capacitor, Sharing of Charges, Capacitance of a parallel plate capacitor, Conductors and insulators,	pressure; Determination of molecular mass using colligative properties; Abnormal value of molar mass, van't Hoff factor and its significance.	Molecular Basis of Inheritance (Botany) Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central dogma;
		S	free charges and bound charges inside a conductor. Dielectrics & electric polarization, Combination of capacitors in series & in parallel, Work done by Battery in charging of a capacitor. Energy stored, Charging and discharging of a Capacitor, Ray Optics - I Reflection at plane and sphericalsurfaces,.	Electrochemical cells - Electrolytic and Galvanic cells, different types of electrodes, electrode potentials including standard- electrode potential half cell reactions, emf of a Galvanic cell and its measurement: Nernst equation and its application. Relationship between cell potential and Gibbs' energy change: Dry cell accumulators: Fuel cell	Transcription, Genetic code, Translation; Gene expression and regulation Lac Operon; Genome and Human genome project; DNA finger printing.
15.	05-Jan-25	S u		MODEL-3	

		d a y		T-1 TO T-14	
16.	26-Jan-25	а	Current ElectricityElectric current in metallic conductor, drift velocity, mobility, relaxation time, current density, ohm's law, electrical resistance, voltage current characteristics.Conductivity, resistivity, combination of electric cells 	T-1 TO T-14 Aldehyde and Ketones: Nature of carbonyl group; Nucleophilic addition to >C=O group relative reactivities of aldehydes and ketones; Important reactions such as - Nucleophilic addition reactions (addition of HCN. NH. and its derivatives), Grignard reagent; oxidation: reduction (Wolf Kishner and Clemmensen); the acidity of alfahydrogen. aldol condensation Cannizzaro reaction. Haloform reaction, Chemical tests to distinguish between aldehydes and Ketones' Carboxylic Acids	Evolution (Zoology) Origin of life; Biological evolution and evidences for biological evolution from Paleontology,comparative anatomy, embryology and molecularevidence); Darwin's contribution, Modern Synthetictheory of Evolution; Mechanism of evolution-Variation(Mutation and Recombination) and Natural Selection with examples, types of natural selection; Gene flowand genetic drift; Hardy- Weinberg's principle; Adaptive Radiation; Human evolution.
			from prism, normal incidence, normal emergence, retracing path, Simple Circuit Wheatstone bridge circuit, meter bridge circuit, conversion of ammeter & volt meter. Electrical energy &power Experimental Skills The resistivity of the material of a given wire using a metre bridge'	Acidic strength and factors affecting it'	

			The resistance of a given wire		
			using Ohm's law'		
		S	Magnetic Effect of Current	d - & f- Block Elements	Microbes in Human Welfare
17.	09-Feb-25	u d a y	Concept of magnetic field, Oersted experiment, BiotSavert law with application, Ampere's law with application, Motion of charge particle in uniform magnetic field (Lorentz force), Velocity selector, Magnetic force on current carrying wire, torque on current loop, magnetic moment, Bar magnet with properties.	Transition Elements General introduction, electronic configuration, occurrence and characteristics, general trends in properties of the first low transition elements - physical properties, ionization enthalpy, oxidation states. atomic radii. colour. Catalytic behaviour. magnetic properties, complex formation. Interstitial compounds. Alloy formation: Preparation, properties, and uses of K ₂ Cr ₂ O ₇ and KMnO ₄ . Inner Transition Elements:	(Botany) In household food processing, Industrial production, Sewage treatment, Energy generation and as biocontrol agents and biofertilizers. Biotechnology : Principles and Processes Principles of Biotechnology, Tools of Recombinant DNA technology, Processes of
			Ray Optics & Optical Instruments Lenses, lens maker formula,	Lanthanoids-Electronic configuration, oxidation states, and lanthanoid contraction. Actinoids - Electronic configuration and oxidation states'	recombinant DNA technology
			combination of lenses, silvering of lenses, chromatic & spherical aberration, displacement method. Human eye, defect of vision,	Co-ordination Compound	
			Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying power.	Introduction to coordination compounds. Werner's theory; ligands, coordination number. denticity. chelation; IUPAC nomenclature of mononuclear co-ordination compounds'	
			Experimental Skills Resistance and figure of merit of a galvanometer by half deflection method	isomerism: Bonding-Valence bond approach and basic ideas of Crystal field theory, colour and magnetic properties; Importance of co- ordination compounds (in	
			Experimental Skills The focal length of; (i) Convex mirror (ii) Concave mirror, and (iii) Convex lens, using the	qualitative analysis. extraction of metals and in biological systems)	

parallax method. The plot of the angle of deviation vs angle of incidence for a triangular prism'	
deviation vs angle of incidence for a triangular	
incidence for a triangular	
prism'	
Refractive index of a glass	
slab using a travelling	
microscope	
18. 16-Feb-25 S <u>Magnetostatics</u> <u>Organic Compound</u> <u>Biotechnology and</u>	its
u <u>Containing Nitrogen</u> <u>Applications</u>	
n Para-, dia-and ferro-magnetic	
d substances, with examples. General methods of Human insulin and	vaccine
a Electromagnetic and factors preparation. Properties, production, gene	therapy;
y affecting their strengths. reactions, and uses' Genetically	modified
Permanent magnets Amines: Nomenclature, organisms-Bt-crops;	
classification structure, basic	Animals;
Properties of Bulk Matter – I of primary, secondary, and Biosafety issues-Bio	
tertion, end their	piracy
hasis sharestar!	
Diazonium Salte: Importance	
Elastic constant.	
Surface tension & energy, Biomolecules	
Angle of contact, Excess of Organisms and Po	ulations
pressure, Capillary tube General introduction and (Botany)	
Electromagnetic Induction importance of biomolecules Population int	eractions-
CARBONIDRATES - mutualism	npetition,
classification, alloses and production	arasitism;
Recoses. Monosacchanges Population attribute	-
dynamic & rotational emf, constituent monosaccharides	•
eddy currents. Self & mutual of oligosaccharides (sucrose, distribution. (Demog	aphy)
induction, Inductance, lactose, and maltose)'	
Coefficient of coupling, A.C. Proteins. Elementary Idea of	
generator, Transformer. amino acids, peptide bond,	
polypeptides. Proteins:	
primary. secondary, tertiary,	
and quaternary structure	
(qualitative idea only),	
denaturation of proteins'	
enzymes.	
VITAMINS - Classification	
and functions.	
Nucleic acids - chemical constitution of DNA and RNA.	
Biological function of nucleic	
acids.	
Hormones	
(General Introducution)	

SN	DATE	DAY	SYLLABUS
19	27-Feb	THURSDAY	FULL SYLLABUS (ONLINE)
20	02-Mar	SUNDAY	FULL SYLLABUS (ONLINE)
21	06-Mar	THURSDAY	FULL SYLLABUS
22	08-Mar	SATURDAY	NCERT-I (BIOLOGY) 180 Q
23	10-Mar	MONDAY	IPL-CHEM – NAMED REACTION, REAGENT & ORDER (90 Q)
			BIO – CHEMICAL DISEASES AND SEQUENCE (90 Q)
24	12-Mar	WEDNESDAY	FULL SYLLABUS
25	17-Mar	MONDAY	FULL SYLLABUS TEST
2J		WONDAT	(PYQs. BASED)
26	19-Mar	WEDNESDAY	FULL SYLLABUS
27	21 MAR	FRIDAY	FULL SYLLABUS TEST
			(PYQs. BASED)
28	23-Mar	SUNDAY	Additional Topic given in NTA not inNCERT [PCB] (ONLINE)
29	24 MAR	MONDAY	FULL SYLLABUS TEST
			(PYQs. BASED)
30	26-Mar	WEDNESDAY	FULL SYLLABUS
31	27 MAR	THURSDAY	NCERT-II (BIOLOGY) 180 Q
32	28-Mar	FRIDAY	MODEL CLASS XI (COMP SYLLABUS PART 1 & 2) PHYS & CHEM ONLY
33	30-Mar	SUNDAY	FULL SYLLABUS TEST
			(PYQs. BASED)
34	1-Apr	TUESDAY	FULL SYLLABUS
35	3-Apr	THURSDAY	Full Syllabus (180 Ques)
55	<u>о др</u> і	HIGKODAT	PHYSICS - ALL THEORY BASED QUES -MODIFIIED QUES 2020 TO 2024 INCLUDING LATERAL PAPER + FORMULA BASED, NCERT INDEX & EXERCISE Qs. (180 Q)





36	06-Apr	SUNDAY	FULL SYLLABUS TEST
			(PYQs. BASED)
37	07-Apr	MONDAY	MODEL -CLASS XII COMP SYLLABUS (PART 1 &2) PHY , CHEM
38	8-Apr	TUESDAY	FULL SYLLABUS
39	10-Apr	THURSDAY	Full Syllabus (180 Questions Chemistry
40	12-Apr	SATURDAY	FULL SYLLABUS TEST (PYQs. BASED)
41	13-Apr	SUNDAY	NCERT-I + NCERT-II (BIOLOGY) 180 Q
42	14-Apr	MONDAY	FULL SYLLBUS (NCERT 1 & 2) PHY , CHEM
43	15-Apr	TUESDAY	FULL SYLLABUS TEST
			(PYQs. BASED)
44	17-Apr	THURSDAY	Full Syllabus
			(180 QuestionsBotany)
45	19-Apr	SATURDAY	FULL SYLLABUS TEST
			(PYQs. BASED).
46	20-Apr	SUNDAY	FULL SYLLABUS
47	22-Apr	TUESDAY	FULL SYLLABUS TEST
			(PYQs. BASED)
48	24-Apr	THURSDAY	Full Syllabus
			(180 QuestionsZoology)
49	26-Apr	SATURDAY	FULL SYLLABUS – <mark>ONLINE.</mark>
50	27-Apr	SUNDAY	FULL SYLLABUS
51	29-Apr	TUESDAY	FULL SYLLABUS TEST
			(PYQs. BASED)
52	30-Apr	WEDNESDAY	FULL SYLLABUS
53	1-May	THURSDAY	FULL SYLLABUS TEST
			(PYQs. BASED)
54	2-May	FRIDAY	FULL SYLLABUS