NEET: 2022 - 2024

Months	Biology	Physics	Chemistry
August	1. Reproduction in organisms	1. Basic Mathematics used in physics & vectors (Physics-1)	1. Mole Concept (Physical)
	1) Reproduction in organisms – I	1) Trigonometry	1) Classification of Universe
	2) Exercise	2) Co-ordinate geometry	2) Dalton's Atomic Theory
	3) Reproduction in organisms – II	3) Differentiation	3) Significant Figure
	4) Exercise	4) Integration	4) The Law of Chemical Combination
	2. Human reproduction	5) Some standard graphs and their equations	5) Percentage Composition and Molecular Formula, Empirical and Molecular Formula, Density, Relation Between Molar Mass & Volume, Limiting Reagent, Stoichiometry Based Concept, Percentage Yield, Average/Mean Atomic Mass, Mean Molar Mass or Molecular Mass, Equivalent Weight, Concentration Terms, Eudiometry or Gas Analysis
	1) Male reproductive system	6) Algebra	6) Exercise -I
	2) Female reproductive system	7) Geometry	7) Exercise - II
	3) Spermatogenesis and sperms		8) Exercise - III
	4) Oogenesis		9) Exercise - IV
	5) Formation of ovarian or graafian follicle and menstrual cycle		10) Exercise - V
		P.T 1, 14/ 08/2022, Sunday	•
	6) Types of eggs	2. Physical World, Unit And Dimensions & Error In Measurement (Physics-2)	2. Atomic Structure (Physical)
	7) Fertilization	1) Physical world	1) Atomic Models
	8) Cleavage	2) Physical quantities	i- Thomson's Model of Atom
	9) General stages of embryonic development	3) Units of Physical Quantities	ii- Rutherford`s α- Scattering Experiment
	10) Extra embryonic membranes and placenta	4) Classification of Units	2) Planck's Quantum Theory
	11) Parturition	5) Dimensions	3) Black Body Radiations
	12) Exercise – I (Conceptual questions)	6) Application of dimensional analysis	4) Quantum Theory of Light
	13) Exercise – II (Previous years questions)		5) Photoelectric Effect (P.E.E.)
	14) Exercise – III (Analytical questions)		6) Bohr`s Atomic Model
	15) Exercise – IV (Assertion and reasons)		7) Energy Level Diagram
			8) Spectrum
			9) Hydrogen Spectrum
			10) Sommerfeld Extension of the Bohr Model
			11) 20) Wave Mechanical Model of an Atom
			12) Orbit and Orbitals, Quantum Numbers,

			13) Aufbau Principle, Pauli`s Exclusion Principle, Hund's maximum multiplicity, Spin Multiplicity, Electronic Configuration of Elements, Wave Mechanical Model of Atom
			14) Exercise - I
			15) Exercise - II
			16) Exercise - III
			17) Exercise - IV
			18) Exercise - V
		P.T 2, 28/08/2022, Sunda	y
Sept	2. Human reproduction	1. Basic Mathematics used in physics &	3. Classification of Elementsand
Зерг	2. Human Teproduction	vectors (Physics-1)	Periodicity in Properties (Physical)
	16) Reproductive health	8) Types of vectors	Modern Periodic law and Long form of periodic table
	17) Exercise – I (Conceptual questions)	9) Addition of two vectors	Periodic trends in properties of elements
	18) Exercise – II (Previous years questions)	10) Addition of more than two vectors	i- Atomic Radii
	19) Exercise – III (Analytical questions)	11) Subtraction of two vectors	ii- Ionic Radii
	20) Exercise – IV (Assertion and reasons)	12) Resolution of two vectors	iii- Ionization Enthalpy
	3. Sexual reproduction in flowering plants	13) Multiplication and Division of a Vector by a Scalar	iv- Electron gain enthalpy
	1) Flower structure	14) Scalar products of two vectors	v- Electronegativity
	2) Androecium	15) Vector products of two vectors	vi- Valency
	3) Gynoecium	16) Exercise-I (Conceptual Question)	4) Exercise -I
	4) Pollination	17) Exercise-II (Previous Years Questions)	5) Exercise - II
	5) Fertilization	18) Exercise-III (Analytical Questions)	6) Exercise - III
	6) Development of endosperm		7) Exercise - IV
	7) Development of embryo in dicot		8) Exercise - V
		C.T 1, 11/09/2022, Sunday	
	8) Asexual reproduction (Apomixis)	2. Physical World, Unit And Dimensions & Error In Measurement (Physics-2)	4. Chemical Bonding(Inorganic)
	9) Parthenocarpy and polyembryony	7) Dimensions of Mathematical Function	1) Cause of Chemical Bonding
	10) Seed	8) Limitation of dimensional analysis	2) Wave Mechanical Concept of Covalent Bonding
	11) Exercise – I (Conceptual questions)	9) Significant Figures	3) Characteristic of covalent bond
	12) Exercise – II (Previous years questions)	10) Rounding off	4) Valence Bond Theory (VBT)
	13) Exercise – III (Analytical questions)	11) Order of Magnitude	5) Hybridization Theory
	14) Exercise – IV (Assertion and reasons)	12) Accuracy and Precision	6) Types of Hybridization, - sp Hybridization, sp ² Hybridization, sp ³ Hybridization, - sp ³ d Hybridization, sp ³ d ² Hybridization, sp ³ d ³ Hybridization

4. Human health and diseases	13) Errors	7) Valence Shell Electron Pair
		Repulsion Theory(VSEPR)
1) Introduction: Immunity system	14) Representation of Errors	8) Determination of Hybridization State
2) Vaccines	15) Propagation of Errors	9) Bond Parameters, Bond Length, Bond Angle, Bond Energy
3) Grafting	16) Least count	10) Molecular Orbital Theory (MOT)
4) Immune system disorders	17) Zero error	11) Dipole Moment & Molecular Polarity
	18) Exercise-I (Conceptual Question)	12) Electrovalent or Ionic Bond, Factors Favoring Ionic Bonding
	19) Exercise-II (Previous Years Ouestions)	13) Factors Affecting Lattice Energy
	,	14) Factors Affecting Solubility
	20) Zhiliona III (i Ilimiyuwii Quosiiona)	15) Transition from Ionic to Covalent Bond - Fajan's Rule
		16) Resonance, Formal Charge, Hydrogen Bond, Van Der Waal's
		Forces, Metallic Bond, Bond Length & pπ - dπ Bonding
		17) Exercise - I
		18) Exercise - II
		19) Exercise - III
		20) Exercise - IV
		21) Exercise - V
4. Human health and diseases		5. States of Matter : Gasesand
	in a plane) (Physics-1)	Liquids(Physical)
,	,	1) Three States of Matter
	,	2) Intermolecular Interactions
7) AIDS	3) Distance & Displacement	3) Role of Gas laws elucidating the concept of themolecule: Boyle's law, Charle's law, Gay Lussac's
	4	Law, Avogadro's law, Ideal Behavior of Gases
8) Cancer	4) Speed & Velocity	4) Empirical derivation of gas equation
9) Drugs and alcohol abuse	5) Acceleration	5) Avogadro Number
10) Exercise – I (Conceptual questions)	6) Equation of Motion	6) Ideal Gas Equation, Deviation from Ideal Behavior
11) Exercise – II (Previous years questions	7) Graphical Section	7) Kinetic Energy and Molecular Speed
questions)	8) Motion Under Gravity (Free Fall)	8) Liquification of Gases, Critical Temperature,
13) Exercise – IV (Assertion and reasons)	9) Projectile Motion : Introduction	9) Liquid State - Vapor Pressure
5. Genetics	10) Ground to Ground Projection	10) Viscosity and Surface Tension(Qualitative idea11) only)
I. Principles of inheritance and variations	11) Horizontal Projection From Height	12) Exercise -I
	12) Oblique Projection From Height	13) Exercise - II
	, , , , , , , , , , , , , , , , , , , ,	14) Exercise - III
3) Mendelism		15) Exercise - IV
4) Gene interaction		16) Exercise - V
	P.T 4 09/10/2022 Sunday	
5) Polygenic inheritance	4. Newton's laws of motion & friction (Physics-2)	6. Equilibrium (Physical)
	1) Introduction: Immunity system 2) Vaccines 3) Grafting 4) Immune system disorders 4. Human health and diseases 5) Genetic diseases 6) Common human diseases 7) AIDS 8) Cancer 9) Drugs and alcohol abuse 10) Exercise – I (Conceptual questions) 11) Exercise – II (Previous years questions) 12) Exercise – III (Analytical questions) 13) Exercise – IV (Assertion and reasons) 5. Genetics I. Principles of inheritance and variations 1) Introduction 2) Some genetical terms 3) Mendelism 4) Gene interaction	1) Introduction: Immunity system 2) Vaccines 15) Propagation of Errors 15) Propagation of Errors 16) Least count 17) Zero error 18) Exercise-I (Conceptual Question) 19) Exercise-III (Analytical Questions) 20) Exercise-III (Analytical Questions) 20) Exercise-III (Analytical Questions) 20) Exercise-III (Analytical Questions) 21) Frame of Reference 22) Motion & Rest 33) Distance & Displacement 24) Speed & Velocity 35) Ones and alcohol abuse 36) Exercise - II (Previous years questions) 37) Exercise - II (Previous years questions) 38) Exercise - II (Analytical questions) 39) Projectile Motion : Introduction reasons) 30) Ground to Ground Projection 31) Introduction 31) Introduction 32) Some genetical terms 33) Mendelism 44) Gene interaction 45) Oblique Projection From Height 47) Projection From Height 48) Cancer 49) Projection From Height 49) Projection From Height 49) Projection From Height 49) Projection From Height 40) Gene interaction 41) Horizontal Projection From Height 41) Hirroduction 42) Oblique Projection From Height 43) Gene interaction 44) Gene interaction 45) P.T 4, 09/10/2022, Sundoy

	6) Cytoplasmic inheritance	1) Newton's first laws of motion	Equilibrium in physical and chemical processes, Dynamic nature of equilibrium, Law of chemical equilibrium, Equilibrium constant
	7) Chromosal theory of inheritance	2) Force	2) Factors affecting equilibrium- Le Chatelier`s principle
	8) Linkage	3) Inertia	3) Ionic equilibrium - Ionization of acids and bases
	9) Sex linkage	4) Momentum	4) 7) Strong and weak electrolytes, Degree of ionization, Ionization of polybasic acids, Acid strength, Concept of pH,
	10) Sex determination	5) Newton's Second Laws of Motion	5) Hydrolysis of salts
	11) Human genetics	6) Impulse	6) Buffer solutions
	12) Population genetics	7) Rocket Propulsion	7) Hinderson equation
	13) Exercise – I (Conceptual questions)	8) Newton's third law of motion	8) Solubility product
	14) Exercise – II (Previous years questions)	9) Free body diagram	9) Common ion effect
	15) Exercise – III (Analytical questions)	10) Normal reaction	10) Exercise - I
	16) Exercise – IV (Assertion and reasons)		11) Exercise - II
		3,	12) Exercise - III
			13) Exercise - IV 14) Exercise - V
		C.T 2, 23/10/2022, Sund	
Nov	5. Genetics	3. Kinematics	7. Redox Reaction and
		(Motion along straight line and motion in a plane) (Physics-1)	Electrochemistry(Physical)
	II. Molecular basis of inheritance	1) Relative Velocity in One Dimension	1) Concept of Oxidation and Reduction
	17) Nucleic acids	2) Relative Velocity in a plane	2) Oxidation Number
	18) Deoxyribonucleic acid (DNA)	3) Rain- Man Problem	3) Balancing redox reactions in terms of loss and
	450		4) gain of electron and change in oxidation numbers
	19) Packaging of DNA helix	4) River-Boat(or Man) Problem	5) Conductance in electrolytic solutions, Specific and Molar conductivity, Variation of conductivity with
			concentration
	20) The search for genetic material	5) Exercise-I (Conceptual Question)	6) Kohlrausch`s law
	21) DNA replication	6) Exercise-II (Previous Years Questions)	Kohlrausch`s law Electrolysis and laws of electrolysis (elementary idea)
		6) Exercise-II (Previous Years	 6) Kohlrausch`s law 7) Electrolysis and laws of electrolysis (elementary idea) 8) Dry cell, Electrolytic cells, Galvanic cells
	21) DNA replication	6) Exercise-II (Previous Years Questions)	 Kohlrausch`s law Electrolysis and laws of electrolysis (elementary idea) Dry cell, Electrolytic cells, Galvanic cells Lead accumulator, EMF of a cell, Standard Electrode Potential, Nernst equation, Relation between Gibbs energy change and EMF of a cell, Corrosion
	21) DNA replication	6) Exercise-II (Previous Years Questions)	 Kohlrausch`s law Electrolysis and laws of electrolysis (elementary idea) Dry cell, Electrolytic cells, Galvanic cells Lead accumulator, EMF of a cell, Standard Electrode Potential, Nernst equation, Relation between Gibbs energy change and EMF of a cell, Corrosion Exercise - I
	21) DNA replication	6) Exercise-II (Previous Years Questions)	 6) Kohlrausch`s law 7) Electrolysis and laws of electrolysis (elementary idea) 8) Dry cell, Electrolytic cells, Galvanic cells 9) Lead accumulator, EMF of a cell, Standard Electrode Potential, Nernst equation, Relation between Gibbs energy change and EMF of a cell, Corrosion 10) Exercise - I 11) Exercise - II
	21) DNA replication	6) Exercise-II (Previous Years Questions)	 Kohlrausch`s law Electrolysis and laws of electrolysis (elementary idea) Dry cell, Electrolytic cells, Galvanic cells Lead accumulator, EMF of a cell, Standard Electrode Potential, Nernst equation, Relation between Gibbs energy change and EMF of a cell, Corrosion Exercise - I Exercise - II Exercise - III
	21) DNA replication	6) Exercise-II (Previous Years Questions)	 6) Kohlrausch`s law 7) Electrolysis and laws of electrolysis (elementary idea) 8) Dry cell, Electrolytic cells, Galvanic cells 9) Lead accumulator, EMF of a cell, Standard Electrode Potential, Nernst equation, Relation between Gibbs energy change and EMF of a cell, Corrosion 10) Exercise - I 11) Exercise - II

	23) Transcription	4. Newton's laws of motion & friction (Physics-2)	8. s- Block Elements(Inorganic)
	24) Genetic code	System of masses tied by strings	General Introduction, Electronic Configuration, Occurrence,
	25) Translation	2) Pulley System	 Anomalous properties of the first element of each Group, Diagonal relationship, Trends in the variation of properties
	26) Regulation of genetic expression	3) Spring Force	4) Trends in chemical reactivity with oxygen, water, hydrogen and halogens
	27) Mutation	4) Frame of reference	5) Uses
	28) DNA finger printing	5) Pseudo Force	6) Preparation and properties of some important Compounds: i- Sodium carbonate, ii- Sodium chloride, iii- Sodium Hydroxide and sodium hydrogen carbonate
	29) Human genome project	6) Mechanical Advantage	7) Biological importance of sodium and potassium
	30) Exercise – I (Conceptual questions)	7) Translational Equilibrium	8) Industrial use of lime and limestone
	31) Exercise – II (Previous years questions)	8) Friction: Introduction	9) Biological importance of Mg and Ca
	32) Exercise – III (Analytical questions)	9) Types of Friction	10) Exercise - I
	33) Exercise – IV (Assertion and reasons)	10) Laws of Limiting Friction	11) Exercise - II
		11) Laws of Kinetic Friction	12) Exercise - III
		12) Two Blocks System In Friction	13) Exercise - IV
		13) Methods of reducing friction	14)Exercise - V
		14) Advantages & Disadvantages of friction	
		15) Exercise-I (Conceptual Question)	
		16) Exercise-II (Previous Years Questions)	
		17) Exercise-III (Analytical Questions)	
D	(D' 4 1 1	P.T 6, 20/11/2022, Sunda	
Dec	6. Biotechnology	5. Work, Energy & Power (Physics-1)	9. Organic Chemistry - Some Basic
	I. Principles and processes	1) Work	Principles and Techniques 1) General Introduction, Methods of Purification qualitative and quantitative analysis
	1) Introduction	2) Energy	Classification and IUPAC nomenclature of Organic Compounds
	2) Principles of biotechnology	Conservative force, Non Conservative force and Central force	3) Electronic displacement in Covalent Bond: Inductive Effect, Electromeric Effect, Resonance, Hyper conjugation,
	3) Tools and techniques	4) Potential energy	4) Homolytic and Heterolytic Fission of Covalent Bond: Free Radical, Carbocation, Carbanions
	4) Processes of RDT	5) Laws of conservation of mechanical energy	5) Electrophiles and Nucleophiles, Types of Organic Reactions
	5) Downstream processing	Spring potential energy and spring - block system	6) Exercise – I
	6) Applications in agriculture	7) Power 8) Exercise-I (Conceptual Question)	7) Exercise – II 8) Exercise – III
	7) Applications in medicine		

8)Transgenic animals	9) Exercise-II (Previous Years Questions)	9) Exercise - IV
9) Ethical issues	10)Exercise-III (Analytical Questions)	10) Exercise – V
)) Luncai issues	C.T 3, 04/12/2022, Sunday	
10) Exercise – I (Conceptual	6. Circular motion (Physics-2)	10. Hydrocarbons (Organic)
questions)	o. Circular motion (Thysics-2)	10. Hydrocar bons (Organic)
11) Exercise – II (Previous years questions)	1) Kinematics of Circular motion	Alkanes: Nomenclature, Isomerism, Conformations, Physical Properties, - Chemical Reactions Including free radical mechanism of Halogenation, Combustion and Pyrolysis
12) Exercise – III (Analytical questions)	Uniform circular motion and Non- uniform circular motion	3) Alkenes: Nomenclature, Structure of Double Bond, Geometrical Isomerism Geometrical Isomerism, Methods of Preparation, Chemical Reactions, Addition of Hydrogen, halogen, water hydrogenhalide (Markonikov`s addition and Peroxide effect), Ozonolysis, Oxidation, Mechanism of Electrophilic addition.
13) Exercise – IV (Assertion and	3) Dynamics of circular motion	4) Alkynes: Nomenclature, Structure of
reasons)	(Circular turning on roads, conical pendulum, death wall or Rotor)	Triple Bond, Physical Properties, Methods of Preparation, Chemical Reactions: Acidic Character of Alkynes, - Addition reaction of hydrogen, halogen, hydrogen halide and water
7. Biology in human welfare	4) Vertical Circular Motion	5) Aromatic Hydrocarbons: Introduction IUPAC Nomenclature, Benzene, Resonance, Aromaticity, Chemical Properties, Mechanism of Electrophilic Substitution -Nitration and Sulphonation, Halogenation, Friedel Craft`s Alkylation and acylation, Directive Influence of Functional Group in Mono substituted Benzene, Carcinogenicity and Toxicity
I. Microbes in human welfare	5) Exercise-I (Conceptual Question)	6) Exercise -I
1) Microbes in household products	6) Exercise-II (Previous Years Questions)	7) Exercise - II
2) Microbes in industrial products	7) Exercise-III (Analytical Questions)	8) Exercise - III
3) Microbes in bio control agents		9) Exercise - IV
4) Microbes as bio fertilizers		10) Exercise - V
5) Microbes in production of biogas		
6) Exercise – I (Conceptual questions)		
7) Exercise – II (Previous years questions)		
8) Exercise – III (Assertion and reasons)		
II. Strategies for enhancement in food production		
9) Plant breeding		
10) Applications of plant breeding		
11) Plant tissue culture		

	questions)		
	14) Exercise – III (Assertion and		
	reasons)	P.T 7, 18/12/2022, Sunday	
	8. Biomolecules	7. Centre of mass & Collisions (Physics-1)	11. Environmental Chemistry
	1) Introduction	1) Centre of mass	Environmental pollution : Air, wa and soil pollution
	2) How to analyse chemical composition	2) Motion of Centre of Mass	Chemical reactions in atmosphere
	3) Primary and secondary metabolites	Application of methods of impulse and momentum to a system of particles	3) Smog
	4) Carbohydrates (Mono – saccharides and Oligosaccharides)	4) Collision	4) Major atmospheric pollutants: i- A rain, ii - Ozone and its reactions, Effects of depletion of ozone layer iv- Greenhouse effect and global warming
	5) Polysaccharides	5) Exercise-I (Conceptual Question)	5) Pollution due to industrial wastes
	6) Lipids	6) Exercise-II (Previous Years Questions)	6) Green chemistry as an alternating for reducing pollution
	7) Proteins	7) Exercise-III (Analytical Questions)	7) Strategy for control of environment pollution
	8) Exercise – I (Conceptual questions)	4,5	8) Exercise - I
	9) Exercise – II (Previous years questions)		9) Exercise - II
	10) Exercise – III (Analytical questions)		10) Exercise - III
	11) Exercise – IV (Assertion and reasons)		11) Exercise - IV
			11) Exercise - IV 12) Exercise - V
	reasons)	P.T 8, 08/01/2023, Sunday	12) Exercise - V
	9. Organism and environment	P.T 8, 08/01/2023, Sunday 8. Rotational motion (Physics-2)	12) Exercise - V
	reasons)		12) Exercise - V 12. Solid State 1) Classification of solids based on
	9. Organism and environment (Ecology) and Demography	8. Rotational motion (Physics-2)	12) Exercise - V 12. Solid State
	9. Organism and environment (Ecology) and Demography 1) Organism and environment 2) Environmental issues 3) Biodiversity and conservation	Rotational motion (Physics-2) Rigid body Rotational motion of rigid body Kinematics of rotational motion	12) Exercise - V 12. Solid State 1) Classification of solids based on different binding forces 2) Amorphous and crystalline solids 3) Unit cell in two dimensional lattic Unit cell in three dimensional lattic
	9. Organism and environment (Ecology) and Demography 1) Organism and environment 2) Environmental issues	8. Rotational motion (Physics-2) 1) Rigid body 2) Rotational motion of rigid body 3) Kinematics of rotational motion 4) Moment of inertia	12) Exercise - V 12. Solid State 1) Classification of solids based on different binding forces 2) Amorphous and crystalline solids 3) Unit cell in two dimensional lattic Unit cell in three dimensional lattic Unit cell in three dimensional lattic Packing in solids, Packing efficiency, Number of atoms in a cubic unit cell, Voids
	9. Organism and environment (Ecology) and Demography 1) Organism and environment 2) Environmental issues 3) Biodiversity and conservation 4) Exercise – I (Conceptual questions) 5) Exercise – II (Previous years questions)	8. Rotational motion (Physics-2) 1) Rigid body 2) Rotational motion of rigid body 3) Kinematics of rotational motion 4) Moment of inertia 5) Radius of gyration	12) Exercise - V 12. Solid State 1) Classification of solids based on different binding forces 2) Amorphous and crystalline solids 3) Unit cell in two dimensional lattic Unit cell in three dimensional lattic Unit cell in three dimensional lattic Packing in solids, Packing efficiency, Number of atoms in a cubic unit cell, Voids 5) Point defects
	9. Organism and environment (Ecology) and Demography 1) Organism and environment 2) Environmental issues 3) Biodiversity and conservation 4) Exercise – I (Conceptual questions) 5) Exercise – II (Previous years	8. Rotational motion (Physics-2) 1) Rigid body 2) Rotational motion of rigid body 3) Kinematics of rotational motion 4) Moment of inertia	12) Exercise - V 12. Solid State 1) Classification of solids based on different binding forces 2) Amorphous and crystalline solids 3) Unit cell in two dimensional lattic Unit cell in three dimensional lattic Unit cell in three dimensional lattic Packing in solids, Packing efficiency, Number of atoms in a cubic unit cell, Voids 5) Point defects
	9. Organism and environment (Ecology) and Demography 1) Organism and environment 2) Environmental issues 3) Biodiversity and conservation 4) Exercise – I (Conceptual questions) 5) Exercise – II (Previous years questions) 6) Exercise – III (Analytical	8. Rotational motion (Physics-2) 1) Rigid body 2) Rotational motion of rigid body 3) Kinematics of rotational motion 4) Moment of inertia 5) Radius of gyration 6) Theorems of moment of inertia moment of inertia of some regular	12) Exercise - V 12. Solid State 1) Classification of solids based on different binding forces 2) Amorphous and crystalline solids 3) Unit cell in two dimensional lattic Unit cell in three dimensional lattic Unit cell in three dimensional lattic Packing in solids, Packing efficiency, Number of atoms in a cubic unit cell, Voids 5) Point defects 6) Electrical and magnetic properties 7) Band theory of metals: i- Conduct
	9. Organism and environment (Ecology) and Demography 1) Organism and environment 2) Environmental issues 3) Biodiversity and conservation 4) Exercise – I (Conceptual questions) 5) Exercise – II (Previous years questions) 6) Exercise – III (Analytical questions) 7) Exercise – IV (Assertion and	8. Rotational motion (Physics-2) 1) Rigid body 2) Rotational motion of rigid body 3) Kinematics of rotational motion 4) Moment of inertia 5) Radius of gyration 6) Theorems of moment of inertia moment of inertia of some regular bodies	12) Exercise - V 12. Solid State 1) Classification of solids based on different binding forces 2) Amorphous and crystalline solids 3) Unit cell in two dimensional lattic Unit cell in three dimensional lattic Unit cell in three dimensional lattic Packing in solids, Packing efficiency, Number of atoms in a cubic unit cell, Voids 5) Point defects 6) Electrical and magnetic properties 7) Band theory of metals: i- Conduct
	9. Organism and environment (Ecology) and Demography 1) Organism and environment 2) Environmental issues 3) Biodiversity and conservation 4) Exercise – I (Conceptual questions) 5) Exercise – II (Previous years questions) 6) Exercise – III (Analytical questions) 7) Exercise – IV (Assertion and reasons)	8. Rotational motion (Physics-2) 1) Rigid body 2) Rotational motion of rigid body 3) Kinematics of rotational motion 4) Moment of inertia 5) Radius of gyration 6) Theorems of moment of inertia moment of inertia of some regular bodies 7) Torque	12) Exercise - V 12. Solid State 1) Classification of solids based on different binding forces 2) Amorphous and crystalline solids 3) Unit cell in two dimensional lattic Unit cell in three dimensional lattic Unit cell in solids, Packing efficiency, Number of atoms in a cubic unit cell, Voids 5) Point defects 6) Electrical and magnetic properties 7) Band theory of metals: i- Conduct ii- Semiconductors, iii- Insulators
	9. Organism and environment (Ecology) and Demography 1) Organism and environment 2) Environmental issues 3) Biodiversity and conservation 4) Exercise – I (Conceptual questions) 5) Exercise – II (Previous years questions) 6) Exercise – III (Analytical questions) 7) Exercise – IV (Assertion and reasons) 8) Demography	8. Rotational motion (Physics-2) 1) Rigid body 2) Rotational motion of rigid body 3) Kinematics of rotational motion 4) Moment of inertia 5) Radius of gyration 6) Theorems of moment of inertia moment of inertia of some regular bodies 7) Torque 8) Rotational equilibrium 9) Bending of cyclist on a horizontal	12. Solid State 1) Classification of solids based on different binding forces 2) Amorphous and crystalline solids 3) Unit cell in two dimensional lattic Unit cell in three dimensional lattic Unit cell in solids, Packing efficiency, Number of atoms in a cubic unit cell, Voids 5) Point defects 6) Electrical and magnetic properties 7) Band theory of metals: i- Conduct ii- Semiconductors, iii- Insulators 8) Exercise - I

	12) Kinetic energy of rotation	12) Exercise - V
	C.T4, 22/01/2023, Sunda	
10. Origin and evolution of life	9. Gravitation (Physics-1)	13. Chemical Kinetics(Physical)
1) Origin of life	Gravitational field and its intensity	Rate of reaction (Average and Instantaneous)
2) Evidences of organic evolution	2) Acceleration due to gravity	2) Factors affecting rate of reaction: i- Concentration, ii- Temperature, iii- Catalyst
3) Theories of organic evolution	3) Gravitational potential energy	3) Order and Molecularity of a reaction
4) Human evolution	4) Gravitational potential	4) Rate law and specific rate constant
5) Exercise – I (Conceptual questions)	5) Escape velocity and escape energy	5) Integrated rate equation
6) Exercise – II (Previous years questions)	6) Kepler's laws of planetary motion	Half-life of zero and first order reactions
7) Exercise – III (Analytical questions)	7) Satellite motion	7) Concepts of collision theory
8) Exercise – IV (Assertion and reasons)	8) Geo-stationary satellite & polar satellite	8) Activation energy
9) Geological time scale	9) Weightlessness	9) Arrhenius equation
	10) Exercise-I (Conceptual Question) 11) Exercise-II (Previous Years	10) Exercise - I 11) Exercise - II
	Questions) 12) Exercise-III (Analytical Questions)	12) Exercise - III
	8. Rotational motion (Physics-2)	13) Exercise - IIV
	13) Rolling motion	14) Exercise - V
	P.T 9, 05/02/2023, Sunday	
11. Strategies for enhancement in food production	14) Rolling motion on inclined plane	14. p - Block Elements(Inorganic)
1) Animal husbandry	15) Exercise-I (Conceptual Question)	1) General Introduction
2) Dairy farm management	16) Exercise-II (Previous Years Questions)	 Group 13 elements: General introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi- Anomalous behavior of first element of the Group.
3) Breeds of cows	17) Exercise-III (Analytical Questions)	4) Some important compounds: borax, boric acid,
4) Breeds of buffaloes	10. Properties of matter & Fluid mechanics (Physics-2)	boron hydrides Aluminum: uses, reaction with acids and alkalis
5) Breeds of sheep	1) Elasticity	7) Group 14 elements: i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi- Anomalous behavior of first element of the 8) Group. viii- Carbon: allotropic forms, ix- Physical and chemical properties, x- Uses of some important compounds: Oxides
6) Breeds of goat	2) Hydro-statics	9) Important compounds of silicon and uses: i- Silicon tetrachloride, silicones, silicates and 10) Zeolite, ii- Uses
7) Breeds of pig	3) Hydro-dynamics	11) Group 15 elements: i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in

			chemical reactivity, vi- Anomalous behavior of first element of the, vii - Preparation and properties of ammonia and nitric acid, viii - Oxides of nitrogen, ix - Phosphorous; allotropic forms
		4) Viscosity	 12) Compounds of phosphorous: preparation and properties of phosphine 13) Halides (PCl₃, PCl₅) and oxoacids
		P.T 10, 19/02/2023, Sund	
March	11. Strategies for enhancement in food production	11. Thermal physics (Physics-1)	14. p - Block Elements(Inorganic)
	9) Animal breeding	1) Temperature and thermal expansion	14) Group 16 elements: General introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi- Anomalous behavior of first element of the
	10) Poultry	i. temperature and thermal expansion	Group. 15) Dioxygen: preparation, properties
	11) Apiculture/Bee Keeping	ii. Thermal expansion	and uses 16) Classification of oxides; ozone
	12) Fisheries	2) Heat	10) Classification of oxides, ozofie
	13) Sericulture	i. specific heat (S or C)	
	14) Lac culture	ii. Latent heat	
	15) Main infectious diseases of domestic animals	iii. Change of state	
	16) Additional information	iv. Phase of substance and phase diagram	
	170 F	C.T 5, 05/03/2023, Sunda	
	17) Exercise – I (Conceptual questions)	10. Properties of matter & Fluid mechanics (Physics-2)	17) Sulphur - allotropic forms
	18) Exercise – II (Previous years questions)	3) Surface tension	18) Compounds of Sulphur: preparation, properties and uses of Sulphur dioxide
	19) Exercise – III (Analytical questions)	4) Exercise-I (Conceptual Question)	19) Sulphuric acid: industrial process of manufacture, properties and uses
	20) Exercise – IV (Assertion and reasons)	5) Exercise-II (Previous Years Questions)	20) Oxoacids of Sulphur
	12. Diversity in the living world	6) Exercise-III (Analytical Questions)	21) Exercise – I
	1) Taxonomy 2) History of taxonomy	12. Oscillation (Physics-2)1) Periodic motion and its characteristics and types of SHM	22) Exercise – II 23) Exercise – III
	3) Kingdom Monera	Simple harmonic motion(SHM) and its equation; Velocity, Acceleration and Phase	24) Exercise – IV
	4) Kingdom Protista	3) Energy in SHM - Potential and K.E.	25) Exercise – V
	5) Kingdom Fungi	4) Oscillation of spring block system	
	40.71	P.T 11, 19/03/2023, Sunday	
April	12. Diversity in the living world	11. Thermal physics (Physics-1)	15. d and f Block elements(Inorganic)
	6) Plant Kingdom	v. Heating curve 3) Laws of mixtures	General introduction: Electronic Configuration, Characteristics of transition metals, General trends in properties of first row transition Metals

A. Algae	26) Mode of heat transfer	2) Metallic character
B. Bryophyta	i. Thermal conduction	3) Ionization enthalpy, Oxidation
		state, Ionic radii, color, Catalytic
C. Drawidanhara	ii. Convention	property, magnetic property
C. Pteridophyta D. Gymnosperms	ii. Thermal radiation	4) Interstitial compounds5) Alloy formation
	iv. Kirchhoff's law	1
7) Exercise – I (Conceptual questions)	1v. Kirchnoli s law	6) Preparation and properties of K ₂ Cr ₂ O ₇ and
		7) KMnO ₄
	P.T 12, 02/04/2023, Sund	
8) Exercise – II (Previous years	v. Stefan's law	8) Lanthanides - Electronic
questions)		configuration,
		9) oxidation state, Chemical reactivity,
		Lanthanide contraction and its
		consequences
9) Exercise – III (Analytical	vi. Newton's law of cooling	10) Actinides - Electronic configuration,
questions)		oxidation state and comparison with lanthanides
10) Exercise – IV (Assertion and	vii. Wien's displacement law	11) Exercise - I
reasons)	vii. viicii s dispiacement law	11) Excicise - 1
11) Virus		12) Exercise - II
12) Lichen		13) Exercise - III
13) Mycorrhiza		14) Exercise - IV
,		,
14) The living world		15) Exercise - V
	C.T 6, 16/04/2023, Sunday	
13. Morphology of flowering plants	12. Oscillation (Physics-2)	14. p - Block Elements(Inorganic)
1) Root	27) Simple pendulum	26) Group 17 elements: General
1) Root	27) Simple pendulum	introduction, i- Electronic
1) Root	27) Simple pendulum	introduction, i- Electronic configuration, ii- Occurrence, iii-
1) Root	27) Simple pendulum	introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation
1) Root	27) Simple pendulum	introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical
1) Root	27) Simple pendulum	introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi- Anomalous behavior of
		introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi- Anomalous behavior of first element of the Group.
1) Root 2) Stem	28) Different types of oscillations	introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi- Anomalous behavior of first element of the Group. 27) Compounds of halogens: i-
		introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi- Anomalous behavior of first element of the Group. 27) Compounds of halogens: i- Preparation, properties and uses of chlorine and hydrochloric acid, ii-
	28) Different types of oscillations (Free, Damped, Forced Oscillation &	introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi- Anomalous behavior of first element of the Group. 27) Compounds of halogens: i- Preparation, properties and uses of chlorine and hydrochloric acid, ii- Interhalogen compounds, iii-
2) Stem	28) Different types of oscillations (Free, Damped, Forced Oscillation & Resonance)	introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi- Anomalous behavior of first element of the Group. 27) Compounds of halogens: i- Preparation, properties and uses of chlorine and hydrochloric acid, ii- Interhalogen compounds, iii- Oxoacids of halogen
	28) Different types of oscillations (Free, Damped, Forced Oscillation &	introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi- Anomalous behavior of first element of the Group. 27) Compounds of halogens: i- Preparation, properties and uses of chlorine and hydrochloric acid, ii- Interhalogen compounds, iii- Oxoacids of halogen 28) Group 18 elements: General
2) Stem	28) Different types of oscillations (Free, Damped, Forced Oscillation & Resonance)	introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi- Anomalous behavior of first element of the Group. 27) Compounds of halogens: i- Preparation, properties and uses of chlorine and hydrochloric acid, ii- Interhalogen compounds, iii- Oxoacids of halogen 28) Group 18 elements: General introduction, i- Electronic
2) Stem	28) Different types of oscillations (Free, Damped, Forced Oscillation & Resonance)	introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi- Anomalous behavior of first element of the Group. 27) Compounds of halogens: i- Preparation, properties and uses of chlorine and hydrochloric acid, ii- Interhalogen compounds, iii- Oxoacids of halogen 28) Group 18 elements: General introduction, i- Electronic configuration, ii- Occurrence, iii-
2) Stem	28) Different types of oscillations (Free, Damped, Forced Oscillation & Resonance)	introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi- Anomalous behavior of first element of the Group. 27) Compounds of halogens: i- Preparation, properties and uses of chlorine and hydrochloric acid, ii- Interhalogen compounds, iii- Oxoacids of halogen 28) Group 18 elements: General introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation
2) Stem	28) Different types of oscillations (Free, Damped, Forced Oscillation & Resonance)	introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi- Anomalous behavior of first element of the Group. 27) Compounds of halogens: i- Preparation, properties and uses of chlorine and hydrochloric acid, ii- Interhalogen compounds, iii- Oxoacids of halogen 28) Group 18 elements: General introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical
2) Stem	28) Different types of oscillations (Free, Damped, Forced Oscillation & Resonance) 29) Exercise-I (Conceptual Question) 30) Exercise-II (Previous Years	introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi- Anomalous behavior of first element of the Group. 27) Compounds of halogens: i- Preparation, properties and uses of chlorine and hydrochloric acid, ii- Interhalogen compounds, iii- Oxoacids of halogen 28) Group 18 elements: General introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation
2) Stem 3) Leaf 4) Inflorescence	28) Different types of oscillations (Free, Damped, Forced Oscillation & Resonance) 29) Exercise-I (Conceptual Question) 30) Exercise-II (Previous Years Questions)	introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi- Anomalous behavior of first element of the Group. 27) Compounds of halogens: i- Preparation, properties and uses of chlorine and hydrochloric acid, ii- Interhalogen compounds, iii- Oxoacids of halogen 28) Group 18 elements: General introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi - Compounds of Xenon 29) Exercise - I
2) Stem 3) Leaf 4) Inflorescence 5) Flower	28) Different types of oscillations (Free, Damped, Forced Oscillation & Resonance) 29) Exercise-I (Conceptual Question) 30) Exercise-II (Previous Years Questions) 31) Exercise-III (Analytical Questions)	introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi- Anomalous behavior of first element of the Group. 27) Compounds of halogens: i- Preparation, properties and uses of chlorine and hydrochloric acid, ii- Interhalogen compounds, iii- Oxoacids of halogen 28) Group 18 elements: General introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi - Compounds of Xenon 29) Exercise - II
2) Stem 3) Leaf 4) Inflorescence	28) Different types of oscillations (Free, Damped, Forced Oscillation & Resonance) 29) Exercise-I (Conceptual Question) 30) Exercise-II (Previous Years Questions)	introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi- Anomalous behavior of first element of the Group. 27) Compounds of halogens: i- Preparation, properties and uses of chlorine and hydrochloric acid, ii- Interhalogen compounds, iii- Oxoacids of halogen 28) Group 18 elements: General introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi - Compounds of Xenon 29) Exercise - I
2) Stem 3) Leaf 4) Inflorescence 5) Flower	28) Different types of oscillations (Free, Damped, Forced Oscillation & Resonance) 29) Exercise-I (Conceptual Question) 30) Exercise-II (Previous Years Questions) 31) Exercise-III (Analytical Questions) 13. Wave motion & Doppler's Effect	introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi- Anomalous behavior of first element of the Group. 27) Compounds of halogens: i- Preparation, properties and uses of chlorine and hydrochloric acid, ii- Interhalogen compounds, iii- Oxoacids of halogen 28) Group 18 elements: General introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi - Compounds of Xenon 29) Exercise - II 30) Exercise - III 32) Exercise - IV
2) Stem 3) Leaf 4) Inflorescence 5) Flower 6) Placentation 7) Fruit 8) Families of angiosperms	28) Different types of oscillations (Free, Damped, Forced Oscillation & Resonance) 29) Exercise-I (Conceptual Question) 30) Exercise-II (Previous Years Questions) 31) Exercise-III (Analytical Questions) 13. Wave motion & Doppler's Effect (Physics-2) 1) Wave and its characteristics 2) Progressive wave on string	introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi- Anomalous behavior of first element of the Group. 27) Compounds of halogens: i- Preparation, properties and uses of chlorine and hydrochloric acid, ii- Interhalogen compounds, iii- Oxoacids of halogen 28) Group 18 elements: General introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi - Compounds of Xenon 29) Exercise - II 30) Exercise - III
2) Stem 3) Leaf 4) Inflorescence 5) Flower 6) Placentation 7) Fruit 8) Families of angiosperms 9) Exercise – I (Conceptual questions)	28) Different types of oscillations (Free, Damped, Forced Oscillation & Resonance) 29) Exercise-I (Conceptual Question) 30) Exercise-II (Previous Years Questions) 31) Exercise-III (Analytical Questions) 13. Wave motion & Doppler's Effect (Physics-2) 1) Wave and its characteristics 2) Progressive wave on string 3) Sound Waves & its characteristics	introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi- Anomalous behavior of first element of the Group. 27) Compounds of halogens: i- Preparation, properties and uses of chlorine and hydrochloric acid, ii- Interhalogen compounds, iii- Oxoacids of halogen 28) Group 18 elements: General introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi - Compounds of Xenon 29) Exercise - II 30) Exercise - III 32) Exercise - IV
2) Stem 3) Leaf 4) Inflorescence 5) Flower 6) Placentation 7) Fruit 8) Families of angiosperms 9) Exercise – I (Conceptual questions) 10) Exercise – II (Previous years	28) Different types of oscillations (Free, Damped, Forced Oscillation & Resonance) 29) Exercise-I (Conceptual Question) 30) Exercise-II (Previous Years Questions) 31) Exercise-III (Analytical Questions) 13. Wave motion & Doppler's Effect (Physics-2) 1) Wave and its characteristics 2) Progressive wave on string	introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi- Anomalous behavior of first element of the Group. 27) Compounds of halogens: i- Preparation, properties and uses of chlorine and hydrochloric acid, ii- Interhalogen compounds, iii- Oxoacids of halogen 28) Group 18 elements: General introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi - Compounds of Xenon 29) Exercise - II 30) Exercise - III 32) Exercise - IV
2) Stem 3) Leaf 4) Inflorescence 5) Flower 6) Placentation 7) Fruit 8) Families of angiosperms 9) Exercise – I (Conceptual questions) 10) Exercise – II (Previous years questions)	28) Different types of oscillations (Free, Damped, Forced Oscillation & Resonance) 29) Exercise-I (Conceptual Question) 30) Exercise-II (Previous Years Questions) 31) Exercise-III (Analytical Questions) 13. Wave motion & Doppler's Effect (Physics-2) 1) Wave and its characteristics 2) Progressive wave on string 3) Sound Waves & its characteristics	introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi- Anomalous behavior of first element of the Group. 27) Compounds of halogens: i- Preparation, properties and uses of chlorine and hydrochloric acid, ii- Interhalogen compounds, iii- Oxoacids of halogen 28) Group 18 elements: General introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi - Compounds of Xenon 29) Exercise - II 30) Exercise - III 32) Exercise - IV
2) Stem 3) Leaf 4) Inflorescence 5) Flower 6) Placentation 7) Fruit 8) Families of angiosperms 9) Exercise – I (Conceptual questions) 10) Exercise – II (Previous years	28) Different types of oscillations (Free, Damped, Forced Oscillation & Resonance) 29) Exercise-I (Conceptual Question) 30) Exercise-II (Previous Years Questions) 31) Exercise-III (Analytical Questions) 13. Wave motion & Doppler's Effect (Physics-2) 1) Wave and its characteristics 2) Progressive wave on string 3) Sound Waves & its characteristics	introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi- Anomalous behavior of first element of the Group. 27) Compounds of halogens: i- Preparation, properties and uses of chlorine and hydrochloric acid, ii- Interhalogen compounds, iii- Oxoacids of halogen 28) Group 18 elements: General introduction, i- Electronic configuration, ii- Occurrence, iii- Variation of properties, iv- Oxidation state, v- Trends in chemical reactivity, vi - Compounds of Xenon 29) Exercise - II 30) Exercise - III 32) Exercise - IV

	12) Exercise – IV (Assertion and				
	reasons)				
3.5	P.T 13, 30/04/2023, Sunday				
May	14. Anatomy of flowering plants	11. Thermal physics (Physics-1)	16. Thermodynamics(Physical)		
	1) Meristem	5) Kinetic theory of gases	1) First law of thermodynamics: i- Internal energy, ii- Enthalpy, iii- Heat capacity and specific heat, iv- Measurement of ΔU and ΔH, v- Hess's law of constant heat summation		
	2) Permanent tissues	i. Ideal gas concept	Enthalpy of: bond dissociation, combustion, formation, atomization, sublimation, phase transition, ionization, solution and dilution		
	3) Tissue system	ii. Gas law	3) introduction of entropy as state function		
	4) Internal structure of root, stem and leaf	iii. Different speeds of gas molecules	.0'		
	5) Secondary growth	iv. Expression for pressure of an ideal			
		gas			
	6) Special tissues	v. Degree of freedom (f)			
	7) Stele	vi. Maxwell's law of equipartition energy			
	8) Exercise – I (Conceptual questions)	vii. Mean free path			
	•	P.T 14, 14/05/2023, Sund	lay		
	9) Exercise – II (Previous years questions)	13. Wave motion & Doppler's Effect (Physics-2)	4) Second law of thermodynamics		
	10) Exercise – III (Analytical questions)	6) Reflection of waves, standing waves in strings	5) Gibbs energy change for spontaneous and non -spontaneous process		
	11) Exercise – IV (Assertion and reasons)	7) Stationary waves in organ pipe	6) Criteria for equilibrium and spontaneity		
	15. Animal kingdom	8) Doppler effect in sound waves and light waves	7) Third law of thermodynamics		
	1) Basis of classification	9) Exercise-I (Conceptual Question)	8) Exercise - I		
	2) Phylum Prortozoa	10) Exercise-II (Previous Years Questions)	9) Exercise - II		
	3) Phylum Porifera	11) Exercise-III (Analytical Questions)	10) Exercise - III		
	4) Phylum Cnidaria	12) Thermodynamics	11) Exercise - IV		
	5) Ctenophora		12) Exercise - V		
	6) Phylum Platyhelminthes				
	7) Phylum Aschelminthes				
	8) Phylum Annelida				
	9) Phylum Arthropoda				
	10) Phylum Mollusca 11) Phylum Echinodermata				
	12) Phylum Hemichordata				
	12) I nyiom Heimenordata	C.T 7, 28/05/2023, Sunday			
June	15. Animal kingdom	11. Thermal physics (Physics-1)	17. Polymers		
June	13) Chordata	i. Thermodynamic system and internal	Classification - Natural and Synthetic		
	14) Protochordata	ii. Work done by thermodynamic system	2) Methods of polymerization		
	1	o jocom	T .		
	15) Cyclostomata	iii. First law of thermodynamics	3) Copolymerization		

	17) Class Amphibia	v. Relation between degree of freedom and specific heat of gas	5) i- Natural and Synthetic like Polyesters, Bakelite, ii- Rubber
	18) Class Reptilia	vi. Second law of thermodynamics	Biodegradable and non - biodegradable polymers
	19) Class Aves	vii. Carnot cycle	7) Exercise - I
	20) Class Mammalia	13) Exercise-I (Conceptual Question)	8) Exercise - II
	21) Exercise – I (Conceptual	14) Exercise-II (Previous Years	9) Exercise - III
	questions)	Questions)	7, =
	22) Exercise – II (Previous years questions)	15) Exercise-III (Analytical Questions)	10)Exercise - IV
	23) Exercise – III (Analytical questions)		11)Exercise - V
	24) Exercise – IV (Assertion and reasons)		
	,	P.T 15, 04/06/2023, Sunda	y
	16. Animal tissue	14. Electrostatics (Physics-2)	18. Haloalkanes and Haloarenes (Organic)
	1) Introduction	1) Electric charge	1) Haloalkanes: Nomenclature, Nature of C-X bond, Physical and chemical properties, Mechanism of substitution reactions, Optical rotation
	2) Epithelial tissue	2) Coulomb's law	Haloarens: Nature of C-X bond, Substitution reactions
	3) Glands	3) Electric field	Environement effect of - Dichloromethane, trichloromethane, tetrachloromethane,
	0.0	4) Fl	iodoform, freons, DDT
	4) Connective tissue 5) Exercise – I (Conceptual questions)	4) Electric field lines & electric flux	4) Exercise - I5) Exercise - II
	6) Exercise – II (Previous years		5) Exercise - II6) Exercise - III
	questions)		
	7) Exercise – III (Analytical questions)	4 87	7) Exercise - IV
	8) Exercise – IV (Assertion and reasons)		8) Exercise - V
	,	P.T 16, 18/06/2023, Sund	lay
July		C.T 8, 02/07/2023, Sunday	
	17. Periplaneta (Cockroach)	15. Current Electricity (Physics-1)	19. Biomolecules
	1) Head	1) Electric current & drift velocity	1) Carbohydrate
	2) Thorax	2) Ohm's law & Electric resistance	Classification: Monosaccharides, polysaccharides, oligosaccharides, D.L. Configuration, Oligosaccharides
	3) Abdomen	3) Combination of resistors	Proteins: Elementary idea of amino acids, peptide bonds, polypeptides, proteins, Primary structure, secondary structure,
			tertiary
			structure and quaternary structure, Denaturation of proteins, Enzymes
	4) Digestive system	4) Kirchhoff's laws	4) Hormones
	5) Respiration		5) Vitamins : Classification and functions
	6) Blood vascular system		6) Nucleic acids: DNA and RNA
	7) Excretory system		7) Exercise - I
	8) Nervous system		8) Exercise - II
			9) Exercise - III
			10) Exercise - IV
			11) Exercise - V

	P.T 17, 16/07/2023, Sunday				
	9) Compound eyes	14. Electrostatics (Physics-2)	20. Alcohols, Phenols and Ethers		
	10) Reproductive system	5) Electrostatics potential energy & electric potential	Alcohols: Nomenclature, Methods of preparation, Physical and chemical properties, Identification of primary, secondary and tertiary alcohol Mechanism of dehydration, Uses with special reference to methanol and ethanol		
	11) Exercise – I (Conceptual questions)	6) Electric dipole	2) Phenols: Nomenclature, , Physical and chemical properties, Acidic nature of phenols, Electrophilic substitution reactions, Uses of phenols		
	12) Exercise – II (Previous years questions)	Motion of charged particle in uniform electric field	3) Ethers: Nomenclature, Nature of carbonyl group, Methods of preparation, Physical and chemical properties, Uses		
	13) Exercise – III (Analytical questions)	8) Conductor & its properties	4) Exercise - I		
	14) Exercise – IV (Assertion and reasons)	9) Exercise-I (Conceptual Question)	5) Exercise - II		
	18. Plasmodium and frog	10) Exercise-II (Previous Years Questions)	6) Exercise - III		
	1) Exercise – I (Conceptual questions)	11) Exercise-III (Analytical Questions)	7) Exercise - IV		
	2) Exercise – II (Assertion and reasons)	D.T. 10 20/07/2022 C. I	8) Exercise - V		
Angust	10 Plant where all are	P.T 18, 30/07/2023, Sunda 15. Current Electricity (Physics-1)	21. Aldehyde, Ketones and Carboxylic		
August	19.Plant physiology	15. Current Electricity (Physics-1)	Acids		
	Transport in plants	12) Cells, combinations of cells, electrical heating and power	Aldehydes and Ketones: Nomenclature, Nature of carbonyl group, Methods of preparation, Physical and chemical properties, Mechanism of nucleophilic addition, Reactivity of alpha hydrogen in aldehyde, Uses		
	1) Introduction	13) Measuring Devices	2) Exercise - I		
	2) Means of transport	14) Potentiometer	3) Exercise - II		
	3) Plant water relations	15) Applications of Potentiometer	4) Exercise - III		
	4) Membrane permeability and types of solutions	16) Exercise-I (Conceptual Question)	5) Exercise - IV		
	5) Osmosis	17) Exercise-II (Previous Years Questions)	6) Exercise - V		
	6) Osmotic pressure	18) Exercise-III (Analytical Questions)			
	7) Turgor pressure	C.T 9, 13/08/2023, Sunday 16. Capacitor (Physics-2)	22. Organic compound containing		
	7) Turgor pressure	10. Capacitor (1 hysics-2)	Nitrogen		
	8) Plasmolysis	1) Capacitance	Amines: Nomenclature, Classification, Structure, methods of preparation, Physical and chemical properties, Identification of primary, secondary and tertiary Amines, Uses		
	9) Diffusion pressure deficit(DPD)	2) Energy stored in capacitor	3) organic chemistry		
	10) Water potential (Ψw)	3) Capacitance of spherical conductor	4) Exercise - I		
	11) Imbibition	4) Parallel plate capacitor 5) Effect of dislocation	5) Exercise - II		
	12) Transpiration	5) Effect of dielectric	6) Exercise - III		

1	10) 7		
	13) Long distance transport	 Dielectric slab inside a parallel plate capacitor 	7) Exercise - IV
	14) How do plants absorb water	7) Electrostatic pressure	8) Exercise - V
	15) Water movement up a plant	8) Combination of capacitor	,
	(ascent of sap)	, , , , , , , , , , , , , , , , , , ,	
	16) Transpirational pull	9) Sharing of charges	
	17) Root pressure	10) Charging and discharging of	
	, .	condenser	
	18) Guttation and exudation/bleeding	11) Van De graph Generator	
	19) Phloem transport	12) Exercise-I (Conceptual Question)	
	20) Girdling experiment	13) Exercise-II (Previous Years Questions)	
	21) Exercise – I (Conceptual	14) Exercise-III (Analytical Questions)	
	questions)	,	
	22) Exercise – II (Previous years		
	questions)		
	23) Exercise – III (Analytical		
	questions)		
	24) Exercise – IV (Assertion and		
	reasons)		
	Mineral nutrition		
	25) Introduction		
	26) Methods to study the mineral		
	requirements of plants		
	27) Essential mineral elements		
	28) Deficiency symptoms of essential		
	elements		
	29) Role of macro and micro nutrients		
	30) Toxicity of micronutrients		
	31) Uptake and transport of mineral nutrients		
	32) Methods of mineral absorption		
	33) Soil as reservoir of essential	4.7	
	elements		
	34) Metabolism of nitrogen		
	35) Biological nitrogen fixation		
	36) Fate of ammonia		
	37) Ammonification and nitrification		
	38) Denitrification		
	39) Exercise – I (Conceptual		
	questions)		
	40) Exercise – II (Previous years		
	questions)		
	41) Exercise – III (Analytical		
	questions)		
	42) Exercise – IV (Assertion and		
	reasons)		
		P.T 19, 27/08/2023, Sunday	
Sept	19.Plant physiology	17. Magnetic effect of current and magnetism (Physics-1)	23. Surface Chemistry
	Photosynthesis in higher plants	Oersted's Discovery and Biot - savart Law	Adsorption - Physisorption and chemisorption
	43) Introduction	2) Special Thumb rules	Factors affecting adsorption of gases on solids
	44) What do we know	3) Application of Biot - savart law	3) Catalysis: Homogeneous, Heterogeneous
			-

	45) Early experiments	Ampere's circuital law and its applications(Infinitely long straight wire, solenoid and toroid)	Activity and selectivity : enzyme catalysis
	46) Where does photosynthesis take place	5) Motion of charge in magnetic field	5) Colloidal State: distinction between true6) solutions
	47) Alignment of chloroplasts		7) Colloids and suspensions
	48) How many pigments are involved in photosynthesis		8) Properties of colloids: Tyndall effect
	49) Absorption spectrum		i- Brownian movement
	50) What is light reaction		ii- Electrophoresis
	51) Emerson effect and red drop		iii- Coagulation
	52) Photophosphorylation		9) Emulsions - types of emulsions
	53) Chemiosmosis hypothesis		10) Exercise - I
	54) Where are the ATP and NADP used		11) Exercise - II
	55) Calvin cycle		12) Exercise - III
	56) Hatch and Slack cycle		13) Exercise - IV
	57) CAM pathway		14) Exercise - V
		P.T 20, 10/09/2023, Sunday	v
	58) Photorespiration	18. Electromagnetic Induction (EMI)	24. General Principles and Process
		(Physics-2)	of Isolation of Elements
	59) Factors affecting photosynthesis	1) Magnetic flux	Principles and methods of extraction
	60) Exercise – I (Conceptual questions)	Electromagnetic induction	i- Concentration
	61) Exercise – II (Previous years questions)	3) Faraday's law	ii- Oxidation
	62) Exercise – III (Analytical questions)	4) Lenz's law	iii- Reduction electrolytic method and refining
	63) Exercise – IV (Assertion and reasons)	5) Induced parameters	Occurrence and principles of extraction of Al, Cu, Zn and Fe
	Respiration in plants	6) Types of EMI	
	64) Introduction	7) Self-induction	
	65) Do plants breath?	8) L- R circuit	
	66) Type of respiration	9) Energy stored in inductor	
	67) Aerobic respiration	10) Mutual induction	
		11) Dynamic emi (motion EMF)	
		12) Periodic EMI	
		13) Main Applications of EMI	
		14) Exercise-I (Conceptual Question)	
		15) Exercise-II (Previous Years Questions)	
		16) Exercise-III (Analytical Questions)	
		C.T 10, 24/09/2023, Sund	
Oct	19.Plant physiology	17. Magnetic effect of current and magnetism (Physics-1)	3) Exercise – I
	68) Glycolysis/EMP pathway	6) Magnetic dipole moment	4) Exercise – II
	70) Krebs cycle/TCA cycle	7) Magnetic dipole in magnetic moment	5) Exercise – III
	71) ETS and oxidative phosphorylation	8) Atomic magnetism	6) Exercise – IV
	72) Chemiosmotic theory/ coupling theory	9) Geomagnetism	7) Exercise – v
	73) The respiratory balance sheet	10) Application of geomagnetism	
	74) Amphibolic pathway	11) (tangent galvanometer, vibration magnetometer & neutral point)	

	75) Anaerobic respiration/	12) Magnetic materials	
	fermentation (PO)	10) F : 1(G : 10 : 1)	
	76) Respiratory quotient (RQ)	13) Exercise-I (Conceptual Question)	
	77) Dynamic state or body constituents	14) Exercise-II (Previous Years	
		Questions)	
	Enzymes	15) Exercise-III (Analytical Questions)	
		P.T 21, 08/10/2023, Sunday	
	78) History of enzymes	18. Alternating Current (AC) (Physics-	25. Chemistry in Everyday Life
	79) Characteristics of enzyme	2) 1) Alternating current and voltage	1) Chemicals in medicines
	80) Nature of enzyme action	Different type of AC Circuits	i- Analgesics
	81) Co-factors	3) Inductance, Capacitance and	ii- Tranquilizers
	81) Co-tactors	Resistance in series	II- Tranquinzers
	82) Classification and nomenclature	4) Power in AC Circuits	iii- Antiseptic, disinfectants,
	62) Classification and nomenciature	Tower in Ac circuits	antimicrobials,
	83) Factors affecting enzyme activity	5) LC Oscillation	iv- Antifertility drugs, antibiotics,
	os) ractors arrecting onlying activity	o) Le osemation	antacids, antihistamines
	84) Exercise – I (Conceptual	6) Exercise-I (Conceptual Question)	2) Chemicals in food
	questions)		
	85) Exercise – II (Previous years	7) Exercise-II (Previous Years	i- Preservative, artificial sweetening
	questions)	Questions)	agents
	86) Exercise – III (Analytical	8) Exercise-III (Analytical Questions)	ii- Elementary idea of antioxidants
	questions)		
	87) Exercise – IV (Assertion and	4	3) Exercise
	reasons)	5,7	
	Plant growth and development		4) Cleansing agents
	88) Growth		i- Soaps and detergents, cleansing agents
	89) Characteristics of plant growth		
	90) Growth is measurable		
	91) Phases of growth		
	92) Growth rates		
	93) Conditions for growth		
	94) Differentiation, dedifferentiation	3,7	
	and redifferentiation		
	95) Development		
	96) Plant growth regulators		
	97) Auxin		
	98) Gibberellins		
	99) Cytokinin		
	100) Ethylene		
	101) Abscisic acid (ABA)		
	102) Photoperiodism		
	103) Vernalisation		
	104) Seed dormancy		
	105) Exercise – I (Conceptual		
	questions)		
	106) Exercise – II (Previous years		
	questions)		
	107)Exercise – III (Analytical		
	questions)		
	108) Exercise – IV (Assertion and		
	reasons)		
	109) Important experiments of plant physiology		
	physiology	P.T 22, 22/10/2023, Sunday	
Nov	20. Cell biology	19. Electromagnetic Waves (EMW)	5) Exercise - I
1101	Zo. Cen money	(Physics-1)	J/ LACICISC - I
	1) What is cell and cell theory?	1) Concept of displacement current	6) Exercise - II
	1) what is cell and cell theory:	1) Concept of displacement current	O) EACICISE II

2) Cell membrane	2) Maxwell's equations	7) Exercise- III
3) Cell wall	3) Hertz experiment	8) Exercise - IV
4) Endomembranous system	4) Properties of EMW	9) Exercise - V
i) Endoplasmic reticulum	i) Troperties of ENTV) Exercise V
ii) Golgi apparatus		
iii) Lysosome		
iv) Vacuole		
5) Mitochondria	5) Transverse nature of EMW	
6) Plastid	6) Parts of electromagnetic spectrum	
7) Ribosome	7) Exercise-I (Conceptual Question)	
8) Cytoskeleton	8) Exercise-II (Previous Years	
i) Microtubules	Questions)	
ii) Microfilaments	Questions	
iii) Intermediate filament		
9) Cilia and flagella	9) Exercise-III (Analytical Questions)	
)) cina and magena	C.T 11, 05/11/2023, Sunday	
10) Centrosome and centriole	20. Ray Optics and Optical	
10) controsome and controse	Instruments (Physics-2)	
11) Microbodies	1) Reflection of light	
12) Nucleus	Reflection from plane mirror	7
13) Chromosome	3) Spherical mirror	
14) Exercise – I (Conceptual	4) Refraction of Light	
questions)		
15) Exercise – II (Previous years questions)	5) Total internal reflection	
16)Exercise – III (Analytical questions)	6) Refraction at curved surfaces	
17) Exercise – IV (Assertion and reasons)	7) Lens	
18) Cell cycle, mitosis	8) Combination of Lens & mirrors	
19) Meiosis	9) Chromatic aberration	
20) Exercise – I (Conceptual	10) Prism	
questions)		
21) Exercise – II (Previous years	11) Dispersion of Light	
questions)		
22)Exercise – III (Analytical	7	
questions)		
23) Exercise – IV (Assertion and		
reasons)		
21. Digestion and absorption		
Introduction Mouth and buccopharyngeal cavity		
3) Teeth		
,		
4) Histology of alimentary canal		
5) Oesophagus and stomach		
6) Intestine		
7) Accessory digestive glands		
8) Physiology of digestion		
9) Assimilation		
10)Disorders of digestive system		
11) Vitamins		
12) Exercise – I (Conceptual questions)		
		i
13) Exercise – II (Previous years questions)		
13) Exercise – II (Previous years questions) 14)Exercise – III (Analytical		

	15) Exercise – IV (Assertion and		
	reasons)	P.T 23, 19/11/2023, Sunday	
Dec	22. Breathing and exchange of	22. Modern Physics - I (Photo Electric	21. Aldehyde, Ketones and Carboxylio
	gases	Effect and Matter Waves) (Physics-1)	Acids
	1) Introduction	1) Photo Electric Effect	Carboxylic acids: Nomenclature, Acidic nature, Methods of preparatio Physical and chemical properties, Uses
	2) Respiratory organs	2) Quantum Theory	2) Exercise – I
	3) Human respiratory system	3) Experimental study of P.E.E. by Lenard	3) Exercise – II
	4) Mechanism of breathing	4) Failure of wave theory of light	
	5) Respiratory volumes and capacities	5) Explanation by Einstein	
	6) Exchange of gases	6) Photo Cell	
	7) Transport of oxygen	7) Matter Wave	407
	8) Oxyhaemoglobin dissociation curve	8) Dual nature of Light	(6)
	9) Transport of CO ₂	9) De - Broglie Hypothesis	
	10) Regulation of respiration	10) Davisson Germer Experiment	
		P.T 24, 03/12/2023, Sunday	
	11) Respiratory disorders	20. Ray Optics and Optical Instruments (Physics-2)	
	12) Exercise – I (Conceptual questions)	12) Optical Instruments [Simple microscope, Compound microscope, Telescope, Lens - Camera]	
	13) Exercise – II (Previous years questions)	13) Defects of Vision	
	14)Exercise – III (Analytical questions)	14) Some natural phenomenon of sunlight	
	15) Exercise – IV (Assertion and reasons)	15) Exercise - I (Conceptual Questions)	
	23. Body fluids and circulation	16) Exercise - II (Previous Years Question)	
	Vascular connective tissue i) Blood ii) Blood plasma iii) RBC iv) WBC v) Blood platelets vi) Blood clotting vii) Blood groups viii) Rh factor	17) Exercise - III (Analytical Questions)	
	2) Circulatory pathways		
	3) Structure of heart		
	4) Heart beat		
		C.T 12, 17/12/2023, Sunday	
Jan	23. Body fluids and circulation	22. Modern Physics - I (Photo Electric Effect and Matter Waves) (Physics-1)	22. Organic compound containing Nitrogen
	5) Conducting system of heart	11) Explanation of Bohr Quantization Condition	8) Cyanides and isocyanides
	6) Regulation of heart beat	12) Exercise - I (Conceptual Questions)	9) Diazonium salts: Preparation, Chemreactions and importance in synthetiorganic chemistry
	7) Cardiac cycle	13) Exercise - II (Previous Years Questions)	
	8) Heart sound	14) Exercise - III (Analytical Questions)	
	9) Blood pressure	21. Wave Optics (Physics-2)	
	10) Disorders of circulatory system	Interference of Light	
	11) Blood vessels	2) Nature of light	
	12) Portal system	3) Interference of light	

P.T 25, 24/12/2023, Sunday					
13) Lymphatic system	4) Young's double slit experiment	10) Exercise – I			
14) Exercise – I (Conceptual	5) Effect of thin films	11) Exercise – II			
questions)	,	,			
15) Exercise – II (Previous years	6) Diffraction of light	12) Exercise – III			
questions)	,	,			
16) Exercise – III (Analytical	7) Fraunhofer diffraction due to single	13) Exercise – IV			
questions)	slit				
17) Exercise – IV (Assertion and	8) Rayleigh's criterion for Resolution	14) Exercise – V			
reasons)	& Resolving power	,			
24. Excretory products and their	9) Polarization				
elimination) 1 oran Earton				
1) Introduction	10) Methods of obtaining plane				
1) muodaetion	polarized light				
2) Excretion	11) Exercise - I (Conceptual Questions)				
3) Modes of excretion	12) Exercise - II (Previous Years				
3) Wodes of exerction	Questions)	4/7			
4) Ornithine cycle	13) Exercise - III (Analytical Questions)				
•	13) Exercise - III (Aliaryticai Questions)				
5) Excretory organs in animals					
6) Human excretory system					
7) Location and structure of kidneys					
8) Post renal urinary tract					
9) Structure of nephron					
10)Types of nephron					
11) Juxtaglomerular apparatus					
12) Blood vessels of kidney					
13) Mechanism of urine formation	. 5				
14) Mechanism of concentration of	-5				
the filtrate					
15) Regulation of kidney functions					
16) Role of other organs in excretion					
17) Disorders of the excretory system					
,					
18) Autoregulation of GFR					
19) Golden key points					
20) Exercise – I (Conceptual					
questions)					
21) Exercise – II (Previous years					
questions)					
22)Exercise – III (Analytical					
questions)					
23) Exercise – IV (Assertion and					
reasons)					
25. Neural control and coordination					
(Nervous system)					
1) Neural system and neural tissues					
i) Introduction					
ii) Neuron					
iii) Myelinogenesis					
iv) Types of neuron					
v) Neuroglial cells					
2) Nerve impulse conduction					
i) Resting phase (polarization)					
ii) Exciting stage (depolarization)					
iii) Repolarisation					
iv) Saltatory conduction					
v) Synapse 3) Structure and function of brain					
3) Structure and function of brain					

	I to be a server		
	i) Development of CNS		
	ii) Human brain, meninges, C.S.F.		
	iii) Forebrain, Cerebrum,		
	Diencephalon, Olfactory lobes		
	iv) Midbrain		
	v) Hind brain, Pons, Cerebellum		
	Medulla oblongata		
	4) Spinal cord, P.N.S., A.N.S.		
	i)Spinal cord (detailed structure)		
	ii) Cranial nerves		
	iii) Spinal nerves		
	iv) Difference between sympathetic		
	and parasympathetic nervous		
	system		
	5) Reflex action		
	i) Introduction		
	ii) Classification of reflex action		
	6) Exercise – I (Conceptual questions)		
	7) Exercise – II (Previous years		
	questions)		
	8)Exercise – III (Analytical		
	questions)		
	9) Exercise – IV (Assertion and		
	reasons)		
		P.T - 26, 21/01/2024, Sunday	
Feb	26. Chemical coordination and	23. Semiconductor and Digital	
	integration (endocrine system)	Electronics (Physics-1)	
	1) Introduction and mechanism of	Energy band theory	
	hormone action	1) Energy state areary	
	i) Hormone, chemical nature and specialties	2) Properties of semiconductor	
	ii) Action of water soluble hormones	3) P - N Junction	
	,	,	
	iii) Action of lipid soluble hormones	, 11	
	2) Pituitary and hypothalamus	5) Rectifier	
	i) Structure of pituitary	6) Zener diode	
	ii) Adenohypophysis	7) Optoelectric junction devices(LED,	
		Photodiode, Solar cell)	
	iii) Neurohypophysis	8) Transistor	
	3) Thyroid, parathyroid and adrenal	9) Application of Transistor	
	glands		
	i) Structure	10) Transistor as a switch	
	ii) Production of hormone	11) Transistor as an amplifier	
	iii) Function of thyroxine	12) Transistor as an Oscillator	
	iv) Thyroid disorder	13) Integrated Circuit	
	v) Structure and function of	14) Logic gates	
	parathyroid	, , , , , , , , , , , , , , , , , , , ,	
	vi) Parathyroid disorders	15) Exercise - I (Conceptual Questions)	
	vii) Structure of adrenal	16) Exercise - II (Previous Years	
	, and detaile of adjoint	Questions)	
	viii) Adrenal cortex	17) Exercise - III (Analytical Questions)	
	,		
	ix) Adrenal medulla	21. Wave Optics (Physics-2)	
	x) Disorders due to abnormal adrenal secretion	14) Polarization	
	4) Thymus, pineal and pancreas	15) Methods of obtaining plane polarized light	
	i) Structure, hormones and functions	16) Exercise - I (Conceptual Questions)	
	of thymus and pineal gland		

ii) Pancreas (structure and hormones) Insulin, Glucagon	17) Exercise - II (Previous Years Questions)	
27. Sensory organs	18) Exercise - III (Analytical Questions)	
1) Eye(photoreceptors)		
i) Internal structure		
ii) Working of eyes		
iii) Mechanism of vision		
iv) Defects of eye		
2) Ear (Stato-acoustic organ)		A .
i) External ear		
ii) Middle year		
iii) Internal year		
iv) Internal structure of vestibular and cochlear apparatus		
v) Working of year		
vii) Mechanism of hearing		
3) Special points (eye and ear)		
4) Exercise – I (Conceptual questions)		
5) Exercise – II (Previous years questions)		
6) Exercise – III (Assertion and		
reasons) 28. Locomotion and movement		
1) Chart of human skeleton		
2) Chart of joints		
3) Introduction		
4) Skull bones		
5) Vertebral column		
6) Sternum		
7) Ribs		
8)Fore limb bones		
9) Hind limb bones		
10) Girdles		
11) Joints		
12) Disorders of bones		
13) Special points (eye and ear)		
14) Exercise – I (Conceptual questions)		
15) Exercise – II (Previous years questions)		
16) Exercise – III (Analytical questions)		
17) Exercise – Iv (Assertion and reasons)		
Limb muscles		
1)Voluntary muscles		
2) Involuntary muscles		
3) Cardiac muscles		

T	4) D	Т	
	4) Properties of muscles 5) Exercises L (Concentral questions)		
	5) Exercise – I (Conceptual questions)		
	6) Exercise – II (Previous years questions)		
	7) Exercise – III (Analytical		
	questions) 8) Exercise – Iv (Assertion and		
'	reasons)		
		B.P.T - 1, 04/02/2024, Sunday	
		B.P.T - 2, 18/02/2024, Sunday	
		B.P.T - 3, 03/03/2024, Sunday	
		B.P.T - 4, 10/03/2024, Sunday	