

Ekalavya NEET Course (E-1 Batch)_ Course Plan

Day	Date	Botany	Zoology	Chemistry	Physics
1	12-08-2021	Characteristics of living Growth,	Introduction of Digestive system	Intro Organic Chemistry	Basic maths (Grpahs)
2	13-08-2021	Reproduction, Metabolism, Consciousness (Part-1)	Mouth and oral cavity	Electronegativity & Basic Hybridization, Electron, Proton, Neutron Calculation, Basic Terms: Atomic Mass, Molecular Mass, Gram Atomic Mass, Relative Atomic Mass	Differentiation and integration
3	14-08-2021	Reproduction, Metabolism, Consciousness (Part-2)	Pharynx, oesophagus Stomach	Mole Calculation based on no of particles, Mass, Volume	Basic Defination of types of vector ,Vector addition & Substraction
4	16-08-2021	4. Classification and Its types,	4.Intestine	Bond Line Notation, Application of percentage composition, Relative density, Vapour density, Specific gravity	Resolution of vector, Multiplication of vector
5	17-08-2021	5. Taxonomy, Systematics,	5.Histology of Alimentary Canal	Degree & DBE	Position vector, Displacement, Distance, speed velocity
6	18-08-2021	6. Nomenclature,	6.Liver	Naming of Alkane, Molecular & Empirical formula calculation	Acceleration, equation of motion
7	19-08-2021	7. Taxnomic Hierachy & taxon	7.Pancrease Gastric and salivary gland	Stoichiometry and Limiting Reagent	Motion under gravity + Graphs in kinematics
8	20-08-2021	8. Species, Genus, Family, Order	8.Digestion in mouth	Naming of Alkene, alkyne & cyclic, Concentration terms, % W/W, % W/V, %V/V & It's applications	Projectile motion (Ground to Ground, Tower) + Equation of trajectory,
9	21-08-2021	10. Phylum division & Kingdom	9.Digestion in stomach and intestine	Functional Group Nomenclature	Problems on projectile motion, Projectile on inclined plane+ Projectile on incline plane
10	23-08-2021	11. Taxonomical aids	10.Pancreatic bile juice digestion in small intestine	Polyfunctional Compounds, Molarity, Molality and It's applications	Relative motion, Examples on relative motion + Rain man problems
11	24-08-2021	1. Kingdom system of classification	11.absorption	Dilution, Mixing and Neutrallisation reactions	River-swimmer problems in kinematics
12	25-08-2021	2. General Features & Archaeobacteria 3. Types of Archaeobacteria	12.Assimilation and disorder of digestive system	Aromatic Compounds, Discovery of e ⁻ , P, n, Millikan oil drop experiment	Introduction to NLM, Basic force, NLM 1st, 2nd, 3rd Law (Action Reaction)
13	26-08-2021	4. Eubacteria Introduction & Shapes 5. Cell wall and Bacteria	1.Introduction and Human respiratory system	Inductive Effect	Tension, Normal force + F.B.D. + String constraint
14	27-08-2021	6. Mesosomes, Pilli, Flagella 7. Cytoplasm, Nucleoid & Nutrition	2.Nasal passage Larynx	Intermediates in Organic, Earlier model of an atom, Rutherford model, Isotopes, Isobars, Isotones, Isodiapher, P.E. distance of closest approach	Wedge constraint
15	28-08-2021	8. Respiration & Asexual Reproduction	3.Trachea, Lungs	Maxwell theory of EMR, Black body radiation	Spring force + weighing machine, balance proble + Pseudo force
16	30-08-2021	9. Parasexual Genetic Recombnation	4.Mechanism of Breathing	Stability of Intermediates, Planck's quantum theory, Photoelectric effect	Causes of friction, Angle of Friction, Angle of Repose + Kinetic friction
17	31-08-2021	10. Cyanobacteria 11. Mycoplasm	5.Exchange of gases	Resonance & Comparision of +M Groups	Static friction + Problems on static and kinetic friction

18	01-09-2021	12. Chrysophyta	6. Respiratory Volume	How to Draw Resonance Structures, Bohr model & Its applications	Two block problem
19	02-09-2021	13. Dinoflagellates 14. Euglenoids	7. Transport of gases	Hydrogen Spectrum and its application	Kinematics of circular motion
20	03-09-2021	15. Slime moulds, protozoan protist	8. Oxygen Dissociation curve and disorders of Respiratory system	Comparing Stability of Resonating Structures, De-Broglie wavelength and Heisenberg Uncertainty Principle	Problems on kinematics of circular motion + Dynamics of circular motion + Circular motion in horizontal plane
21	04-09-2021	16. Characteristics Features	1. Introduction and Blood	Aromaticity	Turning on roads / Banking of road, Centrifugal force
22	06-09-2021	17. Asexual reproduction in fungi 18. Sexual reproduction in fungi	2. Formed elements	Resonance Energy, Quantum Numbers, Application of quantum numbers, Aufbau rule, Hund's rule, Pauli exclusion principle	Calculation of work + Work done By variable forces, area under the graph
23	07-09-2021	19. Classes of fungi	3. Blood group	Radial Nodes and Angular Nodes, Schrodinger Wave Mechanical Model, Radial wave function, Probability density R.P.D.F	Conservative and non - conservative forces
24	08-09-2021	20. Mycorrhiza, Lichen,	4. Single and double circulation Lymph	Hyper Conjugation, Concept of oxidation, Reduction and Oxidation Number	Kinetic energy, Work energy theorem + Problems based on work energy theorem - 1
25	09-09-2021	21. Virus, Viroid, Prion	5. External Structure of Heart	Application of RHI	Power + Force-Potential energy relation & Equilibrium, Mechanical energy conservation & Discussion
26	10-09-2021	1. Important terminologies 2. general features of algae, Classes of algae (Red algae, brown algae and green algae) (Part-1)	6. Internal Structure of heart	Acidic Strength, Calculation of oxidation Number	Types of equilibrium and potential energy curves and discussion + Problems on Mechanical energy conservation
27	11-09-2021	3. Classes of algae (Red algae, brown algae and green algae) (Part-2)	7. Heart Disease and conduction Pathway	Balancing of redox reaction ion electron method	Vertical circular motion
28	13-09-2021	4. Bryophyta (general features of bryophyta and life cycle) (Part-1)	8. Working of Heart and Disorder of circulatory system	Oxidation Number method, Basic Strength	Problem on v+ plane of circular motion
29	14-09-2021	5. Bryophyta life cycle (Part-2)	1. Introduction and Excretory organ in animal	Structural Isomerism	Introduction, Formula for COM, Problems on COM
30	15-09-2021	6. Pteridophyta (general features of pteridophyta and life cycle) (Part-1)	2. Part of Excretory system	Equivalent Concept and n_f calculation, Calculation of Structural Isomerism	Calculation of COM of continuous bodies
31	16-09-2021	7. Pteridophyta life cycle) (Part-2) 8. Gymnosperm (general features of gymnosperm and life cycle) (Part-1)	3. Structure of nephron	n_f calculation part-2	Collision + Line of Collision, Types of collision
32	17-09-2021	9. Gymnosperm life cycle) (Part-2)	4. Mechanism of urine formation	Tautomerism, Titration and its application	Elastic collisions
33	18-09-2021	10. Angiosperm (general features of Angiosperm and life cycle) (Part-1)	5. Counter current Mechanism	Sawhorse, Newman Projection	Inelastic collisions, Coefficient of restitution, Examples on coefficient of restitution
34	20-09-2021	11. Angiosperm and life cycle (Part-2) 12. Lifecycle of plants	6. Micturition and Disorder	Fischer Projection & Stereoconversion, Rate of Reactions, Average rate and instantaneous rate	Rigid body Definition, Moment of Inertia
35	21-09-2021	1. Root, Types and Region of Root 2. Modification of Tap and Adventitious Root	1. Type of Movement and type of muscle	Rate Law, Order and Molecularity	M.O.I of distributed mass & Continuous masses
36	22-09-2021	3. Stem	2. Structure of Contractile Protein and Mechanism of Muscle Contraction	Conformational Isomerism, Zero order reaction	Radius of Gyration, Angular Velocity of one particle wrt another on rotating rigid body

37	23-09-2021	4. Structure of Leaf and venation of Leaf	3.Smooth and cardiac muscle and Disorder of Muscular system	Application of Conformational Isomerism	Torque, principle of Superposition
38	24-09-2021	5. types of Leaf, Phyllotaxy, Modification of Leaf	1.Introduction and Human Skeleton system	Conformation of Cyclohexane, 1st order reaction	Torque about an axis, Couple + Newton's second law for Rotational motion
39	25-09-2021	6. Inflorescence	2. Humorus	2 nd and n th order reaction	Angular momentum + Angular momentum Conservations
40	27-09-2021	7. Flower, Floral whorls, Symmetry types of flower	3.Structure of Carpal	Geometrical Isomerism, Experimental Method to calculate order	Angular impulse, Statics + Rigid body in equilibrium + Toppling
41	28-09-2021	8. Parts of Flower, Types of corolla, Aestivation of corolla, Androecium	4.Bone of Hind Limb	Geometrical Isomerism Calculation	Linear SHM
42	29-09-2021	9. Gynoecium, Placentation 10. Fruits and Seeds	5.Pectoral Girdle, Pelvic girdle	Chiral Center and Polarimeter, Arrhenius equation and Intermediate theory	Problems solving on SHM
43	30-09-2021	11. Families of angiosperm	6.Axial Skeleton system	Order Calculation from Mechanism of Reaction	Graphs between various parameters +Spring block system, Combination of spring + Angular SHM, Simple Pendulum
44	01-10-2021	1. Meristematic Tissue 2. Histogen Theory, Quiescent centre, Tunica carpus theory, Periclinal and anticlinal division, Korpe Kappe theory	7.Vertebraal column, Rids, Sternum, Joints and Disorders of Skeleton system	R, S Configuration and POS, Concentration terms, Vapour pressure	Problems solving on Simple pendulum
45	04-10-2021	3. Simple permanent tissue 4. Xylem	1.Nervous system Introduction	Optical Activity and Symmetry	Compound pendulum + Superposition principle + Damped, Forced Oscillations + Resonance
46	05-10-2021	5. Phloem 6. Epidermal Tissue	2.Type of neuron	Enantiomer & Diastereomer, Immiscible liquid & Henry law	Assumptions, Pressure, Pressure variation with direction
47	06-10-2021	7. Ground Tissue 8. Vascular Tissue	3.CNS	Raoult's Law & Dalton's Law of Partial Pressure	Fluid in an accelerated container, Force on a wall due to fluid + Manometer Barometer
48	07-10-2021	9. Anatomy of Root 10. Anatomy of stem & Leaf	4.Structure of Cerebrum	Calculation of Stereoisomers, Application of Raoult's and Dalton's Law	Buoyant Force Archemedes Principle Examples + Pascal's Law Rotating Tube(Theory)
49	08-10-2021	11. Secondary growth in dicot stem 12. Secondary growth in dicot root and extrastellar secondary growth	5.Diencephalon, Hypothalamus	Electrophile & Nucleophile	Fluid Dynamics Bernoulli's Equation + Velocity of Efflux Venturimeter Force of reaction due to ejection of water
50	09-10-2021	1. Cell Discovery, Cell Theory, Size & Shape, 2. Difference between Prokaryotic & Eukaryotic Cells & between Plant & Animal cell	6.Hind Brain	Solvent, Leaving Group and Nucleophilicity, Ideal & Non-ideal Solutions, Azeotropes	Surface tension Soap bubble and drop Surface energy
51	11-10-2021	3. Cell Wall	7.Spinal cord	Colligative Properties & RLVP	Calculation of S. E Excess Pressure inside a drop Excess Pressure inside a bubble + Capillary action (2nd method) Insufficient height of capillary Viscosity
52	12-10-2021	4. Cell Membrane	8.Refex Action	Reaction of Alkanes, ΔT_b & ΔT_f	Definition, equation of pulse, travelling wave
53	13-10-2021	5. E.R., Golgi Body, Lysosome	9.PNS	Photohalogenation	Speed in string wave, Power, Intensity
54	14-10-2021	6. Mitochondria, Plastid	1.Eye Structure	Use of NBS, Abnormal Mass and Vant Hoff Equation	Superposition, Reflection + Refraction, Interference
55	15-10-2021	7. Vacuoles, Microbodies, Ribosome	2.Working of eye	Osmotic Pressure and Its Application	Vibration in string waves / Various modes of vibration in standing waves

56	16-10-2021	8. Cytoskeleton, Locomotary structure (Cilia, Flagella)	3.Ear Structure and Mechanism	Markovnikov Addition of Alkenes, Types of reaction on the basis of direction and their properties, Definition of chemical equilibrium and its properties, Types of equilibrium	Sonometer wire experiment + String wave discussion
57	18-10-2021	9. Nucleus & Chromosome	1.Introduction of Hormone and Action Mechanism	Rearrangement of Carbocation	Propagation of sound wave + Equation of pressure wave + Speed of sound, Intensity + Loudness, Pitch
58	19-10-2021	1. Cell Cycle	2.Pituitary Gland	Ring Expansion, KCP and TCP, Law of mass action, Equilibrium Constant, Types of Equilibrium constant K_p , K_c and K_x	Interference, Reflection and Refraction
59	20-10-2021	2. Mitosis	3.Thyroid and Parathyroid gland	Equilibrium constant for various reactions, Properties of Equilibrium constant	Air columns (Organ pipes)
60	21-10-2021	3. Meiosis	4.Adrenal gland	Peroxide Effect, Numerical approach using degree of dissociation method & Vapour Density	Beats, Doppler's effect
61	22-10-2021	1. Introduction, Short Distance Transport Diffusion, 2. Active Transport & Osmosis	5.Thymus, Pineal and Pancreas	Syn Addition Reaction	Boyle's law, Charles law, Gaylussac's law, Ideal gas equation
62	23-10-2021	3. OP, TP, DPD	6.Other organ which Secrete Hormones	Bromine Addition, Halo Hydrin Formations, Reaction quotient, Thermodynamics of equilibrium	RMS speed, Avg. K.E.
63	25-10-2021	4. Ψ_w , Ψ_s & Ψ_p ,	1.Detinition, epithelial tissue, Basement membrane.	Le'chatelier principle and Its Application	Maxwells law of distribution of molecular speed, different velocities of gas molecules, + Mean free path, degree of freedom, law of Equipartition of energy.
64	26-10-2021	5. Plasmolysis, Imbibition, 6. Water Absorption	2.Connective tissue, Introduction	Acid Catalyzed hydration of Alkene, Le'chatelier principle and Its Application & Physical Equilibrium	System, Surrounding, Process, Cycle, Zeroth law of Thermodynamics + Specific heat, C_p , C_v
65	27-10-2021	7. Theories of Ascent of Sap	3.Connective tissue introduction	Oxymercuration and Demercuration	internal energy, Heat, Work
66	28-10-2021	8. Transpiration, Theories for Opening & Closing of stomata	4.Types of Connective tissue	Hydroboration Oxidation, Introduction & Arrhenius theory of electrolytic dissociation, Ostwald dilution law & properties of water	Work done for Isobaric, Isochoric, isothermal & Adiabatic processes
67	29-10-2021	9. Uptake and Transport of Mineral	5.Bone, Cartilage and muscular tissue Introduction	Concept of Acids and bases, Levelling Solvent, Common ion effect.	Comparision b/w isothermal & Adiabatic process, Question Reversible & irrversible process, first law of thermodynamics, FLOT for a cycle
68	30-10-2021	10. Transportation of Food	6.Type of muscular tissue and neural tissue	Kucherov Reaction, PH calculation of different types of solutions strong acid & strong basic solution, Mixture of strong acid & strong base.	FLOT for different processes, Polytropic process, W.D. & Sp. Heat in Polytropic process, Question
69	08-11-2021	1. Introduction, Soil less Culture, 2. Essential Elements &Criteria for Essentiality	7.Cockroach introduction and body parts	Ozonolysis	General formula for molar sp. Heat of all process, Free expansion
70	09-11-2021	3. Role of Macro & Micronutrients, 4. Deficiency & toxicity, Mechanism of Mineral Absorption	8.Digestive, Respiratory and Circulatory system	Epoxidation, PH of weak acids, mixture of weak acids & Relative strength of Acids & base.	Seond law of thermodynamics, Source, sink Kelvin - plank statement, Efficiency of cycle, Heat engine
71	10-11-2021	5. Nitrogen Cycle	9.Nervous, Excretory and Reproductive System of Cockroach	Salts & types of salt	Heat enginre, Carnot cycle, Refrigerator
72	11-11-2021	6. Root Nodule Formation & Nitrogen Assimilation	1.Biomolecule Introduction 1 ^o and 2 ^o metabolites.	Hydrolysis of salt part-I, Use of hot $KMnO_4$	Specific heat, Latent Heat + Principle of calorimetry
73	12-11-2021	1. Introduction & Experiments	2.Carbohydrates	Introduction Substitution & Elimination	Practice Problems
74	13-11-2021	2. Photosynthetic Components-Light, Pigments, Photosystems	3.Amino acids	S_N2 reaction, General Introduction and history of Periodic Table	Coefficient of linear, superficial, volumetric expansion + Practice Problems

75	15-11-2021	3. Light Reaction (Cycle & Non Cyclic), Chemiosmotic Hypothesis	4. Prodeins and Structure	Williamson Ether Synthesis, Group Number, Period Number and Basic Inorganic Nomenclature	Introduction, Reflection + Plane mirrors
76	16-11-2021	4. C ₃ Cycle & C ₄ Cycle	5. Lipids	Finkelstein & Swartz reaction, Effective Nuclear Charge (Z effective)	Spherical mirrors + Problems on spherical mirrors
77	17-11-2021	5. CAM Pathway, C ₂ Cycle, Photorespiration, Factors affecting Photosynthesis	6. Nucleic acid and Enzyme Introduction	S _N 1 reaction, Atomic & Ionic Radius	Velocity of image and magnification
78	18-11-2021	1. Introduction & Types	7. Enzymes activity, classes, Types and Properties	Reaction of PCl ₅ and SOCl ₂ , Electron Gain Enthalpies	Refraction at plane surface, Slab and composite slab + Problems based on apparent depth and height, Problems of apparent shift
79	19-11-2021	2. Glycolysis & Anaerobic Respiration	1. Basic Classification and Terminology	Hydrolysis of Ether, Electro negativity	Total internal reflection + Refraction at spherical surface
80	20-11-2021	3. Krebs's Cycle & ETS & Oxidative Phosphorylation	2. Porifera	Reaction of Alcohol with HX, Diagonal Relationship and Periodic Characteristics	Thin lens and lens formula + Problems on lens
81	22-11-2021	4. Respiration an amphibolic Pathway & RQ	3. Coelenterata	S _N Ar, Types of bonding (Definitions of Ionic bond Covalent bond and Metallic bond)	Magnification, velocity of image
82	23-11-2021	1. Growth, Types of Growth & Growth Rate, 2. Conditions for Growth, Differentiation, Dedifferentiation & Redifferentiation and Development	4. Ctenophora and Platyhelminthes.	Dehydration of Alcohol, Octet rule, Limitations of octet rule, Formal charge	Combination of lenses, lens-mirror combination
83	24-11-2021	3. Plant Growth Regulators, Auxin, Gibberellin	5. Aschelminthes.	S _N NGP, Writing the lewis dot structure	Prism, Dispersion of light
84	25-11-2021	4. Cytokinins, Ethylene, Abscissic Acid	6. Annelida and Arthropoda upto Classes	E ₂ Reaction, Structure Drawing I	Optical Instruments
85	26-11-2021	5. Photoperiodism, Vernalisation	7. Types and mouth part of arthropoda and mollusca general Character	Hofmann Elimination, Structure Drawing II	Problem of on optical instruments
86	27-11-2021	1. Life Span & Asexual Reproduction, 2. Methods of Asexual Reproduction	8. Classes and example of mollusca and echinodermata general character	E ₁ cb, Writing resonating structures, finding average bond order	Electric Charge, Coulomb's Law
87	29-11-2021	3. Vegetative Propagation : Natural Methods, 4. Vegetative Propagation : Artificial Methods	9. water vascular system of mollusca and Hemichordata	Substitution vs Elimination, VBT, overlapping of orbital	Electric field, Electric field due to a point charge
88	30-11-2021	5. Phases of Life Span	10. Chordata	Elimination Intramolecular, VSEPR Theory	Electric field due to continuous charge distributions + Electric field due to variable charge density in solid sphere
89	01-12-2021	6. Sexual Reproduction : Features & Events	11. Chondrichthyes and osteichthyes	Introduction, Theory of Hybridization	Electric potential & potential difference, Potential due to a point charge
90	02-12-2021	1. Structure of Flower & Structure of Anther	12. Amphibians and general character of reptiles	Nucleophilic Addition of Aldehyde & Ketone, Hybridization calculation	Electric potential due to continuous charge distribution
91	03-12-2021	2. Microsporogenesis & Pollengrains Development of Male Gametophyte	13. Snakes example and crocodiles, general of Aves	Bond Parameters-1 (Bond Angle), Reaction of G.R with Aldehyde & Ketone	Potential energy of a point charge. + Potential energy for system of point charges, Self Energy of shell, Self energy of solid sphere and energy density
92	04-12-2021	3. Carpel and Types of Ovule, Megasporogenesis & Emryosac	14. Flying adaptations and example of flying and flighters birds, general character of mammals	Reaction with Acid Derivatives, Bond Parameters-2 (Bond Order and Bond Length)	Relation between E & V

93	06-12-2021	4.Pollination & Its Types, Factors Affecting Pollination	15.Subclass of mammals and protheria, Metatheria and eutheria,.	Oxidizing Agent, Type of p bonding ($p\pi-p\pi$ & $p\pi-d\pi$ bond) & Coordinate bonding.	Electric dipole, Field and potential due to dipole, Electric dipole in uniform & nonuniform electric field
94	07-12-2021	5.Biotic & Abiotic Agents of Pollination	1.Introduction, Primary and Secondary sex organ, testis scrotum	Reducing Agent, Molecular Orbital Theory	ELOF, Electric flux & Gauss's Law
95	08-12-2021	6. Pollen Pistil Interaction and Double Fertilization	2.Structure of Testis and Seminiferous tubule sertoli cell	Application of Molecular Orbital Theory, Aldehyde & Ketones Part-I	Application of Gauss's Law
96	09-12-2021	7.Endosperm Formation, Embryogenesis	3.Structure of Penis, male accessory reproductive gland, female Reproductive system	Heating Effect, Metallic Bonding, Fajan Rule	Conductors, Earthing of conductors & Van De Graff Generator
97	10-12-2021	8. Seed & Fruit, Apomixis & Polyembryony	4.Ovary Structure Uterus Fallopian tube	Protection of Functional gp, Thermal stability and solubility	Newton's law of gravitation & Gravitation field intensity
98	11-12-2021	1. Introduction premendelism And Terminologies	5.Vulva, Female accessory reproductive gland, spermatogenesis	Reaction with Ammonia Derivative, Van der Waal's Forces (Hydrogen Bonding)	Gravitation Potential and G.P. Energy
99	13-12-2021	2.Important terminologies-2	6.Oogenesis and Structure of Ovum	Dipole moment, Wolf Kishner & Clemenson Reduction	Kepler's Law and theory of satellite
100	14-12-2021	3.Mendel's History and Study Material	7.Hormonal Control of Spermatogenesis, Menstrual cycle	Aldol Reaction, Electron deficient bonding, Back bonding & Bridge bonding	Problems solving on Kepler's law
101	15-12-2021	4.Monohybrid Cross	8.Cleavage, implantation, Placenta	Intramolecular Aldol, General introduction of complex salts & Different terms/definitions to be used in coordination compound	Current, Current density
102	16-12-2021	5.Dihybrid Cross	9.Gastrulation, Parturition, Lactation	Cannizzaro Reaction, Introduction to Ligands and Denticity	Problems solving on current density
103	17-12-2021	6.Gene Interaction	1.Population explosion, Contraceptive Methods, natural Method Barrier Method	Hydrolysis of salt part-II, Haloform Reaction	Resistance + Dependence of Resistance and Resistivity on Temperature + Combination of Resistors
104	18-12-2021	7.Polygenic Inheritance And Chromosomal theory	2.Chemical method, oral Contraceptive, implants Surgical method,	Esterification + Acylation, Buffer solution, Acidic Buffer, Basic Buffers, Buffer capacity	Problem solving on Combination of Resistors
105	20-12-2021	8. Linkage	3.MTP, STDS,	HVZ Reaction, Solubility and solubility product (ksp), Application of Solubility Product	Electric power & Battery
106	21-12-2021	9.Sex Linkage and Sex determination	4.ART	Carbene & Stability, Introduction and Parameters used to define a gas, Barometer and Manometer	KCL & KVL + Problems solving on KCL & KVL
107	22-12-2021	10.Pedigree Analysis and Mutation	1.Introduction, origin of earth	Carbyl Aminem, Gas Laws	Symmetrical circuits & Grouping of cells
108	23-12-2021	11.Genetic disorders	2.Throries of origin of life	Reimer Tiemann, Application of Gas Laws and Ideal gas Equation	Instruments (Galvanometer, ammeter)
109	24-12-2021	1.Introduction and Nucleotide	3.Miller's experiment, homologous organ	Hoffman Broamide Reaction, Problems related to container	Instruments (volt meter, meter-bridge), Instruments
110	25-12-2021	2.DNA	4.Analogous, vestigeol organ Connecting link	Activating & Deactivating, Kinetic Theory of Gases and Its Application	Modes of Heat transfer, Conduction Basics, Temp. Gradient steady & unsteady Heat transfer, Law of Heat transfer
111	27-12-2021	3.DNA Packaging and The search for genetic material	5.Biogeographical evidence	Directive Influence of groups (Site Selection Principle in ESR Reactions), Maxwell and Boltzmann distribution curve	Conduction,
112	28-12-2021	4.Experiment Semiconservative Method	6.palaentological ovidence, Lamarckism	Friedel Craft Alkylolation, Graham's law, Diffusion/Effusion	Problems on Conduction
113	29-12-2021	5.Mechanism of Dna Replication	7.Darwinism, Mutation theory	Friedel Craft Acylation, Real Gas, Derivation of Wander Waal Equation	Radiation, Prevost theory of heat exchange, Absorptivity, Reflectivity & Transmissivity
114	30-12-2021	6.Transcription	8.Modern Synthetic theory, Types of Natural selection	Nitration, Compressibility factor and its application	Total Emissive power, Emissivity, Stetan-Boltzman's law, kirchoff's law.

115	31-12-2021	7.RNA	9.Hardy-weinberg equilibrium, Types of Speciation	Organic Conversion-Basics, Fundamental of thermodynamics system, Surrounding, Boundary, Types of System, State Variables Extensive and intensive properties	Rate of cooling and heating of object by radiation + Newton's law of cooling, cooling curve
116	01-01-2022	8.Genetic Code	10.Human evolution	Types of thermodynamics process, State and Path functions, Chelation, Flexidentate Ligand and Ambidentate Ligand	Spectral emissive power, wien's Displcement law, solar constant
117	03-01-2022	9.Translation	1.Intections and Non infections disease, Bacterial disease	Work heat, Their sign conventions, Internal energy, First law of thermodynamics, Nomenclature of Coordination Compounds	Capacitance of isolated Conductor & sharing of charges
118	04-01-2022	10.Regulation of gene expression and Operon Model	2.Viral Disease	Heat capacity and Enthalpy, Werner's Theory & EAN Rule	Capacitor & circuits problems
119	05-01-2022	11.Human Genome Project & DNA Finger Printing.	3.Protozoan disease, Helminthic disease, Fungal disease, innate immunity	Problem solving on internal energy and enthalpy, Kirchoff law and its application, Valence bond theory	Combination of capacitors + Charging and Discharging of capacitor + Dielectric, Theory & Problem
120	06-01-2022	1.Introduction, Plant Breeding & Green Revolution	4.Acquired immunity, Primary and secondary response	Comparison between rev. and irr. Isothermal process, Adiabatic process, Comparison between rev. and irr. Adiabatic process, Spectro Chemical Series and Crystal field theory for octa-hedral Complex	Combination of parallel plates, Other types of capacitors
121	07-01-2022	2.Breeding for Disease Resistance, Pest Resistance & Improvement of Food Quality	5.Types of immunity and disorder related to immune system	Comparison between rev. isothermal and rev. adiabatic, Problem solving on isothermal and adiabatic process, Crystal field theory for square planar & Tetrahedral Complex	Biot-savart's law, M-field due to wire, M-field at a point on the axis due to circular wire
122	08-01-2022	3.Tissue Culture, Somatic Hybridisation & SCP	6.Lymphoid organs AIDS	Polytrophic process, Cyclic process and their application, Factor Affecting Splitting Energy	M-field at centre of coil, due to arc, clockface rule
123	10-01-2022	1.Level of Ecological Organisation & Terminologies, 2. Biomes	7.Cancer, Drug abuse Opioids	Second law of thermodynamics, Entropy Carnot cycle, Some Properties of Coordination Compounds and Their Application, Organometallic Compounds, Structural isomerism	M-field due to solenoid force b/w parallel wire
124	11-01-2022	3.Abiotic Factors, Temperature,	8.Cannabinoids	Clausius inequalities, Entropy calculation for system in case of general substance and ideal gas, Geometrical Isomerism.	Mag. Force on moving charge, Rule for direction, Different path of partices, parameters of circular path + Helical path, General motion of charge particle in m-field.
125	12-01-2022	4.Water, Soil, Light	9.Alcohol abuse, Effect, Prevention, Control	Entropy calculation in isothermal and Adiabatic ideal gas process, Entropy in physical process and chemical reactions, Optical Isomerism-1	Lorentz force, General motion of charge partices in E. & Mag. Field
126	13-01-2022	5.Response to Abiotic Factors	1.Dairy farm management animal breeding	Third law of thermodynamics Gibbs energy, Condition for spontaneity, Physical significance of G, Variation of G with P and T, Gibbs free energy and equilibrium constant, Optical Isomerism-2	Force acting on current carrying Conductor in M-Field,
127	15-01-2022	6.Adaptation, 7.Population Attributes	2.AI, MOET, apiculture, Sericulture, Fisheries	Enthalpy of Substance, Enthalpy of Reactions Thermochemical Equation, Enthalpy of Formation and Heat of Reactions from Heat of Formations, Introduction and General trends of Alkali Metals, Flame test + Hydration enthalpy + Reducing strength and Chemical Reactions	Torque on loop, Ampere law basics + M-field due to wire Cylinder
128	17-01-2022	8.Population Growth, 9.Population Growth Model	1.Introduction, Microbes in Household and Industrial product	Hess Law, Enthalpy of Combustion & Measurement of Heat of Reactions From Enthalpy of Combustion, Different Oxides of Alkali Metals and Solubility in liquid NH ₃	Bar magnet & its different parameters Magnetic length, pole Strength Magnetic field due to Bar magnet at axial point at equitorial point

129	18-01-2022	10.Population Interaction-Predation, Competition 11.Parasitism, Amensalism, Protoco-operation, Mutualism	2.Antibiotics, Bioactive molecules, Primary and secondary Treatment	Kirchoff's Equations, Heat of Solution, heat of Hydration, Heat of Atomisation, Resonance Energy, Important compounds of S-block (NaOH and its reactions)	Force b/w two bar Magnet Comparison of Bar magnet and Current loop.
130	19-01-2022	1.Types of Ecosystem & Components	3.Biogas plant, Biological control of disease, Microbes of Biofertilisers	Enthalpy of Neutralisation, Enthalpy of Phase Transformation, Introduction and General Trends of Alkaline Earth Metals	Earth's Magnetic Field, inclination, Declination, B_H and B_V
131	20-01-2022	2.Species Composition, Stratification & Productivity	1.Principle of Biotech, Steps of GM organism Restriction enzymes	Bond Enthalpy & Measurement of Heat of Reactions From Bond Enthalpy, Important compounds of S-block (Washing Soda, Bleaching Powder, Gypsum, Plaster of Paris etc.)	Tangent Galvanometer, Tangent Law, Oscillation Magneto meter.
132	21-01-2022	3.Decomposition	2.Ligase, Alkaline Phosphatase, DNA polymerase Gel electrophoresis	Introduction and Electro chemical cell, Electrode Potential, Standard Electrode Potential, Solubility in water + Thermal Decomposition of Carbonates, Sulphate, Hydroxide of S-Block Elements	Magnetic Material Diamagnetic, Paramagnetic, Ferromagnetic
133	22-01-2022	4.Energy Flow	3.Vector	Standard Hydrogen electrode, Electro chemical Series, Calculating SRP of an electrode from the given SRP of other electrode, Introduction to Boron Family & General Trends	Magnetic flux & Faraday's law, Lenz's law
134	24-01-2022	5.Ecological Pyramids	4.Types of vector Comparent host	Cell representation, Nernst equation & Type of electrode, Occurrence, Preparation & Chemical Reactions of Boron	Examples on Faraday's law
135	25-01-2022	6.Ecological Suceession, 7.Nutrient Cycling	5.Vectorless transfer of gene, Isolation of DNA, PCR, Bioreactors	Different Types of Electrode problem Solving, Important compounds of Boron, Important Compounds of Aluminium	Motional EMF
136	27-01-2022	1.Levels of Diversity	1Application in agriculture Bt-Cotton, Pest resistant Plant.	Metal-Metal Insoluble salt electrode, Concentration cell, Introduction to C family & general trends	Motional EMF & Circuit problem
137	28-01-2022	2.Loss of Diversity	2.Application of Biotechnology in agriculture and medicine	Thermodynamic function of cell reaction, Silicates and Silicones	Self inductance
138	29-01-2022	3.Types & Reason of Conservation	3.Transgenic animals and Ethical issue	Electrolytic cell & Farady's law of electrolysis, Nitrogen family and Chemical and physical properties	L-R series growth circuit + Problem on L-R circuit
139	31-01-2022	1.Pollution – Air Pollution		Product of Electrolysis, Synthesis and Reactions of N_2 , NH_3 , Oxide of Nitrogen, HNO_3	Mutual Inductance, LC– Oscillation
140	01-02-2022	2.Noise Polution, Water Pollution		Electrolytic conductance & Variation of conductivity with dilution, Different Phosphorous Allotropic forms and Reaction of PH_3 , PCl_3 , PCl_5 , Different Oxyacids & oxide of Phosphorus preparation	Problem solving - 1
141	02-02-2022	3.Solid Waste Agrochemical Wastes		Kohlrausch Law and Application of Kohlrausch law, Oxygen family Chemical and physical properties	AC definitions,
142	03-02-2022	4.Green House Effect, Global Warming		Conductometric Titration, Preparation and Reactions of O_2 , O_3 , H_2O_2 , H_2SO_4 , Oxyacids & oxide of Sulphur Important Compounds (Sulphur, H_2S , SO_3)	R, L, C Circuit
143	04-02-2022			Cell's lead storage batteries & fuel cell, Halogen family chemical and Physical properties	R-L, L-C, L-C-R circuits + Resonance
144	05-02-2022			Crystalline, amorphous solids & Structure of crystalline solid & Seven primitive unit cell, Preparation and Chemical Reactions of Bleaching powder, Pseudo halogen & Interhalogen compound	Electric motor and generator, Transformer

145	07-02-2022
146	08-02-2022
147	09-02-2022
148	10-02-2022
149	11-02-2022
150	12-02-2022
151	14-02-2022
152	15-02-2022
153	16-02-2022
154	17-02-2022
155	18-02-2022
156	19-02-2022
157	21-02-2022
158	22-02-2022
159	23-02-2022
160	24-02-2022
161	25-02-2022
162	26-02-2022
163	28-02-2022
164	01-03-2022
165	02-03-2022
166	03-03-2022
167	04-03-2022

Number of atoms per unit cell and density of unit cell, d-Block – General Properties	Photo electric effect, Exp. & observation+ Radiation force and pressure Matter waves
Simple Cubic, BCC & FCC Arrangement, Oxidation State, Electrode Potential Colour, Magnetic Properties and Photography	Davission-germer Experiment
Arrangement in 2-D & 3-D & HCP Packing, Oxidation and Reduction in Aromatic Compound	Bohr model , Calculation of radius, velocity & Energy
Void in close packing, Sulphonation & Halogenation	Bohr model (Spectrum), Nucleus motion
Structure of Ionic compound, Benzene Formation	Atomic collision, X- rays
Chemical Properties and General Reactions of KMnO_4 & $\text{K}_2\text{Cr}_2\text{O}_7$, Diazonium Salt & Reaction	Nuclear, Mass defect , Binding Energy, Radioactivity
f-Block – General Properties and reactions, Coupling Reaction & Azodye Formation	a, b, g, decay, K Capture
Introduction of Ores and Their Naming, Introduction to Carbohydrates, Glucose and Haworth Projection	Fission & Fusion, Nuclear reactor
Separation Technique, Fructose & Mutarotation	Wave Front Huygen's Principle
Calcination, Roasting and Smelting, Sucrose & Inversion of Sugar	Introduction of Wave Optics and Interference + Combination of SHM & Interference
Ellingham diagram, Extraction of Fe, Maltose, Lactose and Epimers	Young's Double Slit Experiment
Extraction of Cu, Pb, Sn, Zn, Ag & Au., Polysaccharides	Modification of Young's Double Slit Experiment
Purification, Reducing and Non-Reducing Sugar	Electrical conduction in semiconductor and energy band theory, Intrinsic and extrinsic semiconductors
Crystal defects, Electrical Properties & Magnetic Properties, Introduction the Amino Acid	p-n junction diode & (V-I) characteristic , Zener diode, photo diode
Adsorption, Types of Adsorption, Freundlich Isotherm, Langmuir Isotherm, Zwitter Ion & Peptide Formation	Transistors, (NPN, PNP)
Colloids, Classification of Colloids, Preparation of Colloids, Structure of Proteins and Denaturation	Common emitter, Common base, Common collector.
Purification of Colloids, Properties of Colloids, Exclusions, Introduction to Nucleic Acid	Digital electronics and Logic Gates
Catalysis, DNA and RNA	Communication channels, Space communication, Remote sensing, Line communication
Introduction to Polymer & Addition Polymer and Its Application	Optical communication, Optical fibre.
Addition Polymers-2 & Condensation Polymer	Electromagnetic Waves -1+ Electromagnetic Waves -2
Quantitative Analysis & Quantitative Analysis-2	Verniercaliper ,screw gauge, serle's experiment + Handout of Unit & Dimension
POC-1 (Test for Functional gp) & POC-2 (Test for Functional gp)	Verniercaliper ,screw gauge, serle's experiment + Handout of Error & Measurement
POC-3 (Test for Functional gp) & POC-4 (Test for Functional gp)	

168	05-03-2022	POC-5 (Lassaigne's Extract) & POC-6 (Crystallization + Sublimation)
169	07-03-2022	POC-7 (Distillation and Differential Extraction) & POC-8 (Chromatography)
170	08-03-2022	Drug Target Interaction & Antacids and Antihistamine
171	09-03-2022	Tranquilizers and Analgesics & Antimicrobial and Anti Fertility Drugs
172	10-03-2022	Chemicals in Food Industry & Soap and Detergent