

Recurring NEET-UG Topics You Can't Skip

BIOLOGY

NCERT XI

SNo.	Chapter	Topics
1	The Living World	Taxonomic hierarchy
2	Biological Classification	Five kingdom classification, Virus and viroid
3	Plant Kingdom	Life cycle of Pteridophyte and Bryophyte, Algae classification, Classification system of plants
4	Animal Kingdom	Phylum Chordata, Aschelminthes, Annelida, Arthropoda
5	Morphology of Flowering Plants	Leaf modification, Stem modification, Phyllotaxy, Inflorescence, Dicotyledon seed and monocotyledon seed
6	Anatomy of Flowering Plants	Monocot root, Dicot root, Monocot stem, Dicot stem, Vascular tissue system
7	Structural Organisation in Animals	Types of tissues, Glandular epithelium, Specialised connective tissue, Frog morphology, Circulatory system, Fertilization and development, Cockroach nervous system, Sensory structures, Male reproductive system and female reproductive system
8	Cell: The Unit of Life	Prokaryotic and eukaryotic difference, Mesosomes, Endomembrane system, Mitochondria and chloroplast, Ribosomes, Cell membrane, Plastids, Pili and flagella, Types of chromosomes based on position of centromere
9	Biomolecules	Ash analysis, Structure of proteins, Role of cofactor and apoenzyme, Competitive and noncompetitive inhibitor, Secondary metabolites, Nature of enzyme, Classification of enzymes, Factors affecting enzyme activity
10	Cell Cycle and Cell Division	Mitosis and its significance, Meiosis and its significance
11	Photosynthesis in Higher Plants	Early experiments, Types of pigment, Cyclic and non-cyclic photophosphorylation, C ₃ cycle and C ₄ cycle, Factors affecting photosynthesis (CO ₂ concentration and light)
12	Respiration in Plants	Glycolysis, Aerobic respiration, Electron transport system (ETS), Respiratory quotient
13	Plant Growth and Development	Growth rate, Differentiation and dedifferentiation, Plant growth hormones (discovery and functions)
14	Breathing and Exchange of Gases	Conducting zone, Respiratory zone, Inspiration and expiration conditions, Respiratory volumes, Oxygen dissociation curve, Transport of O ₂ and CO ₂ , Regulation of respiration, Disorders
15	Body Fluids and Circulation	Blood clotting, Blood group system, Cardiac cycle, Electrocardiogram (ECG), Difference between artery and vein, Disorders
16	Excretory Products and Their Elimination	Ammonotelic, ureotelic and uricotelic organisms, Juxtaglomerular apparatus (JGA), Urine formation, Counter current mechanism, Regulation of kidney function, Micturition, Disorders, Hemodialysis
17	Locomotion and Movement	Types of movement, Structure of sarcomere, Thin filament and thick filament, Sliding filament theory, Types of muscle fibres, Appendicular skeleton, Disorders, Types of joints
18	Neural Control and Coordination	Nerves of PNS, Types of neurons, Resting membrane potential, Conduction of impulse, Electrical synapse and Chemical synapse, Central nervous system, Parts of brain
19	Chemical Coordination and Integration	Hypothalamic hormones, Pituitary gland, Disorders of growth hormone, Thyroid gland, Parathyroid gland, Pineal gland, Adrenal hormones, Pancreas hormones, Hormones of heart, kidney and GI tract, Nature of hormones

NCERT XII

SNo.	Chapter	Topics
1	Sexual Reproduction in Flowering Plants	Microsporogenesis, Megasporogenesis, Pollination (abiotic and biotic), Double fertilization, Polyembryony, Pollen-pistil interaction, Outbreeding devices, Artificial hybridization
2	Human Reproduction	Gametogenesis, Female reproductive system, Menstrual cycle, Development, Lactation
3	Reproductive Health	Natural methods, Barrier methods, Contraceptive pills, IUDs, MTP, STIs, Assisted reproductive technologies
4	Principles of Inheritance and Variation	Monohybrid cross, Dihybrid cross, Mendelian disorders, Pedigree analysis, Codominance, Incomplete dominance, Sex determination
5	Molecular Basis of Inheritance	DNA replication, Transcription, Translation, Lac operon, Griffith/Hershey-Chase experiment, RNA vs DNA, HGP, DNA Fingerprinting
6	Evolution	Hardy-Weinberg principle, Convergent evolution, Divergent evolution, Miller's experiment, Adaptive radiation
7	Human Health and Disease	Malaria life cycle, Drugs, Cancer, Lymphoid organs, Active/Passive/Innate/Acquired immunity, Common pathogenic diseases
8	Microbes in Human Welfare	Biocontrol agents, Sewage treatment, Microbes in household
9	Biotechnology: Principles and Processes	Cloning vector, Vectors for cloning genes in plants and animals, Process of recombinant DNA technology, Downstream processing, Restriction enzymes
10	Biotechnology and its Applications	Bt cotton, RNA interference, Gene therapy, Transgenic animals, Genetically engineered insulin
11	Organisms and Populations	Age pyramids, Population growth, Exponential/Logistic growth, Population interactions
12	Ecosystem	Types of ecosystem, Productivity, Decomposition, Ecological pyramids
13	Biodiversity and Conservation	Biodiversity, Conservation, Causes of biodiversity loss, Species-area relationship, Global diversity

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CHEMISTRY

NCERT XI

SNo.	Chapter	Topics
1	Some Basic Concepts of Chemistry	Mole concept and stoichiometry, Empirical and molecular formula, Limiting reagent, Percentage composition, Concentration terms (Molarity, Molality, Mole fraction), Laws of chemical combination
2	Structure of Atom	Bohr's model, Quantum mechanical model, Dual nature of matter, Heisenberg uncertainty principle, Quantum numbers, Electronic configuration, Shapes of orbitals
3	Classification of Elements and Periodicity in Properties	Periodic trends (Atomic radius, Ionization enthalpy, Electron gain enthalpy, Electronegativity), Periodic classification, Variation of valency
4	Chemical Bonding and Molecular Structure	Ionic bond, Covalent bond, VSEPR theory, Hybridization, Molecular orbital theory, Bond parameters (Bond length, Bond angle, Bond energy)
5	Thermodynamics	First law of thermodynamics, Enthalpy changes, Hess's law, Bond enthalpy, Spontaneity and Gibbs free energy
6	Equilibrium	Chemical equilibrium, Equilibrium constant (Kc, Kp), Le Chatelier's principle, Ionic equilibrium, pH, pOH, Buffer solutions, Solubility product
7	Redox Reactions	Oxidation and reduction concepts, Oxidation number, Balancing redox reactions
8	The p-Block Elements (Class 11)	Group 13 and 14 elements, Important compounds, Anomalous behaviour of carbon
9	Organic Chemistry - Some Basic Principles and Techniques	IUPAC nomenclature, Isomerism (Structural and stereoisomerism basics), Electronic displacement effects (Inductive, Resonance, Hyperconjugation), Reaction intermediates (Carbocation, Carbanion, Free radical), Purification techniques
10	Hydrocarbons	Alkanes (Preparation and properties), Alkenes and Alkynes, Aromatic hydrocarbons, Electrophilic substitution reactions

NCERT XII

SNo.	Chapter	Topics
1	Solutions	Types of solutions, Concentration terms, Raoult's law, Colligative properties, Abnormal molar mass
2	Electrochemistry	Conductance, Kohlrausch law, Electrochemical cells, Nernst equation, Relation between G and emf
3	Chemical Kinetics	Rate of reaction, Order and molecularity, Integrated rate equations, Half-life, Arrhenius equation
4	The p-Block Elements (Class 12)	Group 15, 16, 17, 18, Important compounds, Trends and anomalies, Anomalous behaviour of nitrogen and oxygen
5	The d- and f-Block Elements	Electronic configuration, Oxidation states, Lanthanide contraction, Magnetic properties
6	Coordination Compounds	Werner's theory, Nomenclature, Isomerism, Crystal field theory, Bonding in coordination compounds
7	Salt Analysis	Identification of cations (Cu ²⁺ , Fe ³⁺ , Al ³⁺ , Zn ²⁺ , etc.), Identification of anions (CO ₃ ²⁻ , SO ₃ ²⁻ , Cl ⁻ , NO ₃ ⁻ , etc.), Confirmatory tests, Flame test, Brown ring test, Chromyl chloride test
8	Haloalkanes and Haloarenes	Preparation methods, Nucleophilic substitution reactions (S _N ¹ , S _N ²), Elimination reactions
9	Alcohols, Phenols and Ethers	Preparation and properties, Acidic nature, Reactions of alcohols and phenols
10	Aldehydes, Ketones and Carboxylic Acids	Nucleophilic addition reactions, Oxidation and reduction, Important name reactions (Aldol, Cannizzaro), Acidity of carboxylic acids
11	Amines	Basicity of amines, Preparation methods, Diazonium salts, Reactions
12	Biomolecules	Carbohydrates, Proteins, Enzymes, Vitamins, Nucleic acids

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PHYSICS

NCERT XI

SNo.	Chapter	Topics
1	Units and Measurements	Dimension, Principle Of Homogeneity, Error, Vernier Screw Gauge, Vector Addition and Subtraction Of Vector Multiplication Of Vector
2	Motion in a Straight Line	Equation Of Motion with Constant Acceleration, Free Fall, Constant Acceleration, General 1D Motion Graph
3	Motion in a Plane	Projectile Motion Time Calculation Height Calculation Range Calculation, River Man Problem, General 2D Motion, Umbrella Problem, Kinematics Differentiation Integration
4	Laws of Motion	Newton's Second Law, Friction, Friction on Inclined Plane, Pulley Block System, Pseudo Force, Effective Acceleration
5	Work, Energy and Power	Work Energy Theorem, Kinetic Energy and Potential Energy Graph and Calculation, Work Done by Variable and Constant Force, Power, F.V Work Upon Time
6	System of Particles and Rotational Motion	Centre Of Mass, Momentum, Angular Momentum and Torque, Conservation of Angular Momentum, Moment of Inertia, Rolling Motion, Circular Dynamics
7	Gravitation	Variation Of G, Orbital Escape and Kepler's Law, Escape Velocity and Capler's Law, Gravitational Chapter
8	Mechanical Properties of Solids	Elasticity
9	Mechanical Properties of Fluids	Surface Energy, Terminal Velocity, Bernoulli Theorem, Equation of Continuity, Capillary Rise
10	Thermal Properties of Matter	Calorimetry, Heat Transfer, Stephen's Law, Displacement Law, Expansion
11	Thermodynamics	Thermodynamic Process, Ideal Gas Equation, Heat Engines
12	Kinetic Theory	RMS Velocity, Mean Free Path, Laplace's Correction, Thermal Velocity
13	Oscillations	Time Period of Pendulum and Spring, Position Acceleration in SHM
14	Waves	Velocity And Acceleration in Wave, Sound Wave Beats, Organ Pipe Closed Then Open

NCERT XII

SNo.	Chapter	Topics
1	Electric Charges and Fields	Electrostatic Flux, Superposition of Assistant, Electric Field Due To Spheres Infinite Lines
2	Electrostatic Potential and Capacitance	Parallel Plate Capacitor and Property, Capacitor in Series and Parallel
3	Current Electricity	Ammeter Voltmeter, Metre Bridge, Wheatstone Bridge, Galvanometer, Charging of Battery, Maximum Power Theorem, Series and Parallel Circuit
4	Moving Charges and Magnetism	Force On Wire and Charge, Motion of Charge in Magnetic Field, Magnetic Force on Charge, Ampere Circuital Law
5	Magnetism and Matter	Bar Magnet, Torque and Dipole, Dia Diamagnetic Ferromagnetic Paramagnetic Substances Relation with Temperature Properties
6	Electromagnetic Induction	Self And Mutual Inductance, Motional EMF, Faraday Law
7	Alternating Current	LCR Circuit, Quality Factor and Resonance Condition in LCR
8	Electromagnetic Waves	EM Wave Equation and Property
9	Ray Optics and Optical Instruments	Mirror Formula, Lens, Prism, Prism Deviation, Combination of Lens and Focal Length
10	Wave Optics	Young Double Slit Experiment, Mallu's Law, Diffraction, Interference Intensity Maximum on Intensity Minimum Ratio
11	Dual Nature of Radiation and Matter	Photoelectric Effect, D Broccoli Wavelength
12	Atoms	Bohr's Model, Line Spectra, Radius and Energy of Electron
13	Nuclei	Binding Energy, Binding Energy and Size of Nucleus, Alpha Beta Gamma Decay
14	Semiconductor Electronics	Diode Circuit, Doping and Biasing, PN Type Semiconductor, Solar Cell, Photo Diode, LED, Logic Gate