



## Ranker's Package

# Detailed Test Planner NEET-XII (CF)

*Daily Test Planner*

*AIATS Planner*

*Comprehensive Test Planner*

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**DAILY TEST SCHEDULE & SYLLABUS (VOLUME 1 – APRIL)**

| Test Name               | Test Syllabus   |
|-------------------------|---|
| Physics Daily Test 01   | Electric Charges & Field:-Introduction, Electric charges, Conductors and insulators   |
| Chemistry Daily Test 01 | Solid State: General characteristics of solid-state, Amorphous and crystalline solids. Classification of crystalline solids : Molecular, ionic, metallic and covalent solids  |
| Botany Daily Test 01    | Reproduction in Organisms:-Life span, Basic features of reproduction, Asexual reproduction-Features, Methods (Binary fission, Budding, Sporulation).  |
| Zoology Daily Test 01   | Reproduction in Organisms:-Average & maximum life span, Life expectancy, population growth, Types of Reproduction–Asexual reproduction: Fission (binary & multiple), Budding (internal & external), Fragmentation Regeneration. |
| Physics Daily Test 02   | Electric Charges & Field:-Charging by induction, Basic properties of electric charges   |
| Chemistry Daily Test 02 | Solid State: Crystal lattices and unit cells : Primitive and centered unit cells, Number of atoms in simple cubic, body centered and face centered cubic unit cell  |
| Botany Daily Test 02    | Reproduction in Organisms:-Vegetative propagation - Natural and artificial (cutting)  |
| Zoology Daily Test 02   | Reproduction in Organisms:-Sexual reproduction: Outline of reproductive system of cockroach and earthworm; Prefertilization events (Gametogenesis, oestrous cycle), Syngamy.  |
| Physics Daily Test 03   | Electric Charges & Field:-Coulomb's law, Force between multiple charges   |
| Chemistry Daily Test 03 | Solid State: Close packed structures in 2D and 3D ccp and hcp arrangements, Formula of a compound and number of voids filled  |
| Botany Daily Test 03    | Reproduction in Organisms:-Artificial (Layering & grafting), Sexual reproduction - Features, Phases of life cycle   |
| Zoology Daily Test 03   | Reproduction in Organisms:-Post fertilization events: Embryogenesis, oviparous and viviparous animals; Parthenogenesis.   |
| Physics Daily Test 04   | Electric Charges & Field:-Electric Field, Electric field due to system of charges   |
| Chemistry Daily Test 04 | Solid State: Locating tetrahedral and octahedral voids  |
| Botany Daily Test 04    | Reproduction in Organisms:-Events i.e. Pre-fertilisation, Fertilization and Post-fertilization.   |
| Zoology Daily Test 04   | Human Reproduction:-Sex organs, Male reproductive system: Testes, Epididymis, Vas deferens, Penis, Accessory glands of male reproductive system, Seminal plasma and semen   |

**DAILY TEST SCHEDULE & SYLLABUS (VOLUME 1 – APRIL)**

| Test Name               | Test Syllabus  |
|-------------------------|--|
| Physics Daily Test 05   | Electric Charges & Field:-Electric field lines, Electric Dipole  |
| Chemistry Daily Test 05 | Solid State: Packing efficiency in simple cubic, hcp/ccp and bcc lattices  |
| Botany Daily Test 05    | Sexual Reproduction in Organisms:-Introduction, Flower - A fascinating organ of angiosperms, Pre-fertilization - structures and events - Stamen, Microsporangium, Microsporogenesis. |
| Zoology Daily Test 05   | Human Reproduction:-Structure of female reproductive system, Fallopian tubes, uterus, Vagina, Female External genitalia and Accessory genital glands                                 |
| Physics Daily Test 06   | Electric Charges & Field:-Dipole in a uniform external field, Electric flux  |
| Chemistry Daily Test 06 | Solid State: Calculation involving unit cell dimensions  |
| Botany Daily Test 06    | Sexual Reproduction in Organisms:-Pollen grain, Development of male gametophyte, The pistil, Megasporangium (ovule), Types of ovules   |
| Zoology Daily Test 06   | Human Reproduction:-Structure of Mammary glands, Spermatogenesis and its hormonal control, Structure of mature sperm   |
| Physics Daily Test 07   | Electric Charges & Field:-Continuous charge distribution   |
| Chemistry Daily Test 07 | Solid State: Structure of Ionic solids   |
| Botany Daily Test 07    | Sexual Reproduction in Organisms:-Megaspores, Embryo sac/Female gametophyte development  |
| Zoology Daily Test 07   | Human Reproduction:- Oogenesis and structure of ovum & ovary   |
| Physics Daily Test 08   | Electric Charges & Field:-Gauss's Law, Application of Gauss's law  |
| Chemistry Daily Test 08 | Solid State: Imperfections in solids : Types of point defects electrical and magnetic properties   |
| Botany Daily Test 08    | Sexual Reproduction in Organisms:-Pollination : Objective, Kinds - Autogamy, Geitonogamy, Xenogamy, Agents of pollination - Wind, Water, Insects                                     |
| Zoology Daily Test 08   | Human Reproduction:-Menstrual cycle: Various events and its hormonal control   |

**DAILY TEST SCHEDULE & SYLLABUS (VOLUME 1 – APRIL)**

| Test Name               | Test Syllabus  |
|-------------------------|--|
| Physics Daily Test 09   | Electrostatic Potential and Capacitance:-Introduction, electrostatic potential, potential due to a point charge  |
| Chemistry Daily Test 09 | Solutions-Types of solutions, Expressing concentration of solutions. Solubility of a solid in a liquid and gas in a liquid (Henry-law)   |
| Botany Daily Test 09    | Sexual Reproduction in Organisms:-Outbreeding devices, Pollen-pistil interaction   |
| Zoology Daily Test 09   | Human Reproduction:-Capacitation and acrosomal reactions, Fertilisation fast block and slow block to prevent polyspermy, Embryonic development cleavage, morula, blastula and implantation                       |
| Physics Daily Test 10   | Electrostatic Potential and Capacitance:-potential due to Different charge system  |
| Chemistry Daily Test 10 | Solutions-Vapour pressure of liquid solutions, Raoult's law for binary solutions. Ideal and non-ideal solutions  |
| Botany Daily Test 10    | Sexual Reproduction in Organisms:-Double fertilization, Post-fertilization structures and events - Endosperm   |
| Zoology Daily Test 10   | Human Reproduction:-Gastrulation, fate of three germinal layers, Pregnancy and embryonic development   |
| Physics Daily Test 11   | Electrostatic Potential and Capacitance:-potential due to a system of charges  |
| Chemistry Daily Test 11 | Solutions-Colligative properties and determination of molar mass : Relative lowering of vapour pressure, Elevation of boiling point, depression of freezing point, Osmosis and osmotic pressure, reverse osmosis |
| Botany Daily Test 11    | Sexual Reproduction in Organisms:-Embryo development, Post fertilization, structure and events - Seed  |
| Zoology Daily Test 11   | Human Reproduction:-Major features, function and types of placenta   |
| Physics Daily Test 12   | Electrostatic Potential and Capacitance:-Equipotential surfaces  |
| Chemistry Daily Test 12 | Solutions-Abnormal molar masses and van't Hoff factor  |

**DAILY TEST SCHEDULE & SYLLABUS (VOLUME 1 – APRIL)**

| Test Name               | Test Syllabus  |
|-------------------------|--|
| Botany Daily Test 12    | Sexual Reproduction in Organisms:-Fruit; Apomixis and Polyembryony.  |
| Zoology Daily Test 12   | Human Reproduction:-Parturition and lactation  |
| Physics Daily Test 13   | Electrostatic Potential and Capacitance:-Potential energy of a system of charges, Potential energy in an external field                  |
| Chemistry Daily Test 13 | Electrochemistry-Electrochemical cells, Galvanic cells : S.H.E and measurement of electrode potential, Nernst equation                   |
| Botany Daily Test 13    | Principles of Inheritance & Variation:-Mendel's laws of inheritance - Dominance, Segregation   |
| Zoology Daily Test 13   | Reproductive Health:-Reproductive Health, Problems & Strategies, Population explosion, Human population growth                           |
| Physics Daily Test 14   | Electrostatic Potential and Capacitance:-Electrostatics of conductors, dielectrics and polarization                                      |
| Chemistry Daily Test 14 | Electrochemistry-Equilibrium constant from Nernst equation, Gibbs free energy and electrochemical cell and Gibb's energy of the reaction |
| Botany Daily Test 14    | Principles of Inheritance & Variation:-Explanation of the concept of dominance, Incomplete and co-dominance                              |
| Zoology Daily Test 14   | Reproductive Health:-Methods of Birth control, Medical termination of pregnancy (MTP)  |
| Physics Daily Test 15   | Electrostatic Potential and Capacitance:-Capacitors and capacitance, The parallel plate capacitor  |
| Chemistry Daily Test 15 | Electrochemistry-Conductance of electrolytic solutions, measurement of the conductivity of ionic solutions                               |
| Botany Daily Test 15    | Principle of inheritance and variation   |
| Zoology Daily Test 15   | Reproductive Health:-STD (Venereal Diseases), Infertility, ART (Assisted reproductive technology)  |
| Physics Daily Test 16   | Electrostatic Potential and Capacitance:-Effect of dielectrics on capacitance  |

**DAILY TEST SCHEDULE & SYLLABUS (VOLUME 1 – APRIL)**

| Test Name               | Test Syllabus   |
|-------------------------|---|
| Chemistry Daily Test 16 | Electrochemistry-Variation of conductivity and molar conductivity with dilution in case of strong electrolyte and weak electrolyte. Kohlrausch law                          |
| Botany Daily Test 16    | Principles of Inheritance & Variation:-Multiple alleles, Pleiotropy, Inheritance of two genes, Law of independent assortment  |
| Zoology Daily Test 16   | Evolution: Theories & Evidences:-Origin of universe (Big bang theory) Solar system, Theories of origin of life: Panspermia theory, Abiogenesis theory, Theory of biogenesis |
| Physics Daily Test 17   | Electrostatic Potential and Capacitance:-Combination of capacitors  |
| Chemistry Daily Test 17 | Electrochemistry-Electrolytic cells and electrolysis : Faraday laws of electrolysis. Products of electrolysis   |
| Botany Daily test 17    | Principles of Inheritance & Variation:-Complementary genes, Duplicate genes, Epistasis  |
| Zoology Daily Test 17   | Evolution: Theories & Evidences:-Chemical origin of life, Stanley Miller's experiment, Prebiotic system coacervate and microsphere, Geological time scale                   |
| Physics Daily Test 18   | Electrostatic Potential and Capacitance:- Energy stored in a capacitor, Van de Graff Generator.   |
| Chemistry Daily Test 18 | Electrochemistry-Batteries : Primary and secondary batteries fuel cells. Corrosion  |
| Botany Daily Test 18    | Principles of Inheritance & Variation:-Polygenic inheritance, Chromosomal theory of inheritance   |
| Zoology Daily Test 18   | Evolution: Theories & Evidences:-Evidences of evolution – Palaentological, evolution of horse   |
| Physics Daily Test 19   | Current Electricity:-Introduction, Electric current, Electric currents in conductors. Ohm's law, Drift of electrons and the origin of resistivity                           |
| Chemistry Daily Test 19 | Chemical Kinetics-Rate of a chemical reaction. Factors influencing rate of reactions. Rate expression and rate constant   |
| Botany Daily Test 19    | Principles of Inheritance & Variation:-Linkage and recombination  |
| Zoology Daily Test 19   | Evolution: Theories & Evidences:-Morphological and anatomical evidences of evolution-Homologous, analogous, Vestigeal organs  |
| Physics Daily Test 20   | Current Electricity:-Limitations of Ohm's law, Resistivity of various material, Temperature dependence of resistivity, Electrical energy power                              |
| Chemistry Daily Test 20 | Chemical Kinetics-Order and molecularity of a reaction, Integrated rate equations for zero and first order reactions. Half-life of a reaction                               |

**DAILY TEST SCHEDULE & SYLLABUS (VOLUME 1 – APRIL)**

| Test Name               | Test Syllabus  |
|-------------------------|--|
| Botany Daily Test 20    | Principles of Inheritance & Variation:-Sex determination, Mutations - Gene mutation  |
| Zoology Daily Test 20   | Evolution: Theories & Evidences:-Evidences from: Connecting links, Embryological evidences, Biogeographical evidences, Adaptive radiation  |
| Physics Daily Test 21   | Current Electricity:-Combination of resistors, series and parallel   |
| Chemistry Daily Test 21 | Chemical Kinetics-Pseudo first order reaction. Temperature dependence of the rate of a reaction  |
| Botany Daily Test 21    | Principles of Inheritance & Variation:-Mutations - Chromosomal aberrations, Genomatic mutation   |
| Zoology Daily Test 21   | Evolution: Theories & Evidences:-Lamarck's theory, Darwin's theory–Darwin novelty  |
| Physics Daily Test 22   | Current Electricity:-Cells, emf. Internal resistance, cells in series and in parallel  |
| Chemistry Daily Test 22 | Chemical Kinetics-Effect of catalyst, Collision theory of chemical reactions & Assignments   |
| Botany Daily Test 22    | Principles of Inheritance & Variation:-Pedigree analysis, Cytoplasmic inheritance  |
| Zoology Daily Test 22   | Evolution: Theories & Evidences:-Mutation theory, Hardy Weinberg principle: Gene flow, Gene migration, Genetic drift, Mutation, genetic Recombination, Natural selection                   |
| Physics Daily Test 23   | Current Electricity:-Kirchhoff's laws and its application  |
| Chemistry Daily Test 23 | Surface Chemistry-Adsorption vs Absorption, Mechanism of adsorption, Types of adsorption, Freundlich adsorption isotherm, Adsorption isobar  |
| Botany Daily Test 23    | Principles of Inheritance & Variation:-Genetic disorders - Mendelian and Chromosomal disorders.  |
| Zoology Daily Test 23   | Evolution: Theories & Evidences:-Speciation: Allo patric and sympatru, Brief account of evolution: Evolution of plant forms, Evolutionary history of vertebrates through geological period |
| Physics Daily Test 24   | Current Electricity:-Wheatstone bridge, Meter Bridge   |
| Chemistry Daily Test 24 | Surface Chemistry-Homogeneous vs Heterogeneous catalysis, Different classification of colloids and their preparation methods   |

**DAILY TEST SCHEDULE & SYLLABUS (VOLUME 1 – APRIL)**

| Test Name               | Test Syllabus   |
|-------------------------|---|
| Botany Daily Test 24    | Molecular Basis of Inheritance:-Introduction, The DNA-structure of polynucleotide chain, Derivation of DNA structure, DNA packaging in prokaryotes  |
| Zoology Daily Test 24   | Evolution: Theories & Evidences:-Human evolution, Prior to Ape man, Ape man to prehistoric man, Prehistoric to modern man   |
| Physics Daily Test 25   | Current Electricity:-Potentiometer.   |
| Chemistry Daily Test 25 | Mechanical, Electrical and Optical properties of colloids, Emulsions  |
| Botany Daily Test 25    | Molecular Basis of Inheritance:-Packaging in eukaryotes, The search for genetic material, Transforming principle, Evidence from experiments with bacteriophage, Properties of genetic material,           |
| Zoology Daily Test 25   | Human Health & Disease:-Health-Variety of diseases in Human-Bacterial, Viral  |
| Physics Daily Test 26   | Moving Charges and Magnetism:-Introduction, Magnetic force  |
| Chemistry Daily Test 26 | General Principles and Processes of Isolation of Elements-Occurrence of metals, Concentration of an ore (Physical and Chemical methods), Hydraulic washing, Magnetic separation, Froth floatation process |
| Botany Daily Test 26    | Molecular Basis of Inheritance:-RNA world, Replication of DNA - The experimental proof, The machinery and enzymes.  |
| Zoology Daily Test 26   | Human Health & Disease:-Fungal: Ringworms, Helminthic: Ascariasis, Elephantiasis  |
| Physics Daily Test 27   | Moving Charges and Magnetism:-Motion in a magnetic field, Motion in combined Electric and Magnetic fields   |
| Chemistry Daily Test 27 | General Principles and Processes of Isolation of Elements-Leaching, Thermodynamic aspects of Metallurgy (Ellingham diagram), Extractive metallurgy  |
| Botany Daily Test 27    | Molecular Basis of Inheritance:-Transcription - Transcription unit, Types of RNAs   |
| Zoology Daily Test 27   | Human Health & Disease:-Protozoan: Life cycle of Plasmodium vivax and Entamoeba histolytica   |
| Physics Daily Test 28   | Moving Charges and Magnetism:-Biot-savart's law, Magnetic field on the axis of a circular current loop  |

**DAILY TEST SCHEDULE & SYLLABUS (VOLUME 1 – APRIL)**

| Test Name               | Test Syllabus  |
|-------------------------|--|
| Chemistry Daily Test 28 | General Principles and Processes of Isolation of Elements-Refining of metals,Extractive metallurgy, uses of Al, Cu, Zn and Fe  |
| Botany Daily Test 28    | Molecular Basis of Inheritance:-Process of Transcription in prokaryotes, Transcription in Eukaryotes   |
| Zoology Daily Test 28   | Human Health & Disease:-Types of Immunity-Innate and acquired, Humoral mediated Immunity   |
| Physics Daily Test 29   | Moving Charges and Magnetism:-Cyclotron, Magnetic field due to a current element   |
| Chemistry Daily Test 29 | p-Block Elements-Group-15 : N <sub>2</sub> , NH <sub>3</sub> , Oxides of Nitrogen, HNO <sub>3</sub> , P-Allotropic forms, PH <sub>3</sub> ,                            |
| Botany Daily Test 29    | Molecular Basis of Inheritance:-Genetic code - Salient features  |
| Zoology Daily Test 29   | Human Health & Disease:-Cell Mediated Immunity, Active & Passive Immunity, Vaccination and Immunisation  |
| Physics Daily Test 30   | Moving Charges and Magnetism:-Ampere' Circuital Law, The solenoid and the toroid ,Force between two parallel currents, the ampere                                      |
| Chemistry Daily Test 30 | p-Block Elements-Ozone, Sulphur-Allotropic forms,Phosphorus halides, oxoacids of phosphorus, Group 16: O <sub>2</sub> , simple oxides, compounds of sulphur            |
| Botany Daily Test 30    | Molecular Basis of Inheritance:-t-RNA - The adapter molecule, Translation.   |
| Zoology Daily Test 30   | Human Health & Disease:-Allergies, Auto immunity, Immune system of the body, Lymphoid organs: Primary and Secondary  |
| Physics Daily Test 31   | Moving Charges and Magnetism:-Torque on current loop, Magnetic dipole, Moving coil Galvanometer.   |
| Chemistry Daily Test 31 | p-Block Elements-Group 17 elements: Compounds of chlorine, oxoacids of halogens, interhalogen compounds.Group-18 : Physical properties of Inert gases, Xenon compounds |
| Botany Daily Test 31    | Molecular Basis of Inheritance:-Regulation of gene expression, Operon concept  |
| Zoology Daily Test 31   | Human Health & Disease:-AIDS-Cause, Detection, Symptoms, Prevention  |
| Physics Daily Test 32   | Magnetism and Matter:-Introduction, The bar magnet, Magnetism and Gauss's Law  |

| DAILY TEST SCHEDULE & SYLLABUS (VOLUME 1 – APRIL) |  |
|---|--|
| Test Name   | Test Syllabus  |
| Chemistry Daily Test 32                           | d & f-Block Elements-General properties of d-block elements, Preparation and properties and uses of $KMnO_4$ and $K_2Cr_2O_7$  |
| Botany Daily Test 32                              | Molecular Basis of Inheritance:-Human genome project - Goals, Methodologies, Salient features, Applications and Future challenges, DNA fingerprinting.   |
| Zoology Daily Test 32                             | Human Health & Disease:-Cancer–Causes, detection & diagnosis, Treatment  |
| Physics Daily Test 33                             | Magnetism and Matter:-The Earth's magnetism  |
| Chemistry Daily Test 33                           | d & f-Block Elements-f-Block elements (General characteristic) and Lanthanoids contraction, The actinoids and some application of d and f block elements   |
| Botany Daily Test 33                              | Strategies for Enhancement in Food Production:-Introduction, Plant breeding – Definition, Main steps   |
| Zoology Daily Test 33                             | Human Health & Disease:-Alcohol and Tobacco Opioids, Cannabinoids, Sedatives, Hallucinogens, Stimulants, Primary and Secondary   |
| Physics Daily Test 34                             | Magnetism and Matter:-Tangent Law and its applications   |
| Chemistry Daily Test 34                           | Coordination Compounds-Werner's theory of coordination compounds, Definition of some important terms pertaining to coordination compounds, Nomenclature of coordination compounds, Isomerism in coordination compounds   |
| Botany Daily Test 34                              | Strategies for Enhancement in Food Production:-Green revolution, Plant breeding for disease resistance, Plant breeding for resistance to insect pests, Improved food quality, Anti nutritional factors, Single cell protein, Green manure, Energy crops, Petroleum plants, |
| Zoology Daily Test 34                             | Human Health & Disease:-Adolescence, Addiction & dependence, Effects of drugs & alcohol abuse, Prevention & control  |
| Physics Daily Test 35                             | Magnetism and Matter:-Magnetization and magnetic intensity, Magnetic properties of materials,Permanent magnets and electromagnets  |
| Chemistry Daily Test 35                           | Coordination Compounds-Valence bond theory of complex compounds, Crystal field theory colour of coordination complexes   |
| Botany Daily Test 35                              | Strategies for Enhancement in Food Production:-Tissue culture – Definition, Environmental conditions, Types, Applications  |
| Zoology Daily Test 35                             | Animal Husbandry:-Dairy farm management, Poultry farm management, Indigenous & exotic breeds, Bacterial, Viral & Fungal disease  |

**DAILY TEST SCHEDULE & SYLLABUS (VOLUME 1 – APRIL)**

| Test Name               | Test Syllabus  |
|-------------------------|--|
| Physics Daily Test 36   | Electromagnetic induction:-Introduction, the experiments of Faraday and Henry, Magnetic Flux, Faraday's laws of induction, Lenz's law and conservation of energy, Motional electromotive force                 |
| Chemistry Daily Test 36 | Coordination Compounds-Bonding in metal carbonyls & organometallics, Stability of coordination compounds, Importance & Application of coordination compounds   |
| Botany Daily Test 36    | Microbes in Human Welfare:-Introduction, Microbes in household products, Industrial products.  |
| Zoology Daily Test 36   | Animal Husbandry:-Live stocks, Animal Breeding, Inbreeding, Outbreeding, Out crossing, Cross breeding, Interspecific hybridisation, MOET, Artificial Insemination  |
| Physics Daily Test 37   | Electromagnetic induction:-Energy consideration, A quantitative study Eddy currents, Electromagnetic induction:-Inductance,  |
| Botany Daily Test 37    | Microbes in Human Welfare:-Microbes in sewage treatment, Biogas production,  |
| Zoology Daily Test 37   | Animal Husbandry:-Bee keeping, Sericulture, Aqua culture (Fisheries)   |
| Physics Daily Test 38   | Alternating Current:-Introduction AC voltage applied to a resistor representation of AC current and voltage by rotating vectors -phasors, AC voltage applied to an inductor, AC voltage applied to a capacitor |
| Botany Daily Test 38    | Microbes in Human Welfare:-Biocontrol agents, Biofertilizers.  |
| Zoology Daily Test 38   | Biotechnology-Principles and Processes:-Biotechnology-Principles, Tools of recombinant DNA technology  |
| Physics Daily Test 39   | Alternating Current:-AC voltage applied to a series LCR circuit, Power in AC circuit, The power factor, LC Oscillations, transformers.   |
| Botany Daily Test 39    | Organisms and Populations:-Introduction, Levels of organisation, Major biomes.   |
| Zoology Daily Test 39   | Biotechnology-Principles and Processes:-Separation and Isolation of DNA fragments Cloning vectors, Competent host  |
| Botany Daily Test 40    | Organisms and Populations:-Abiotic Factors - Temperature, Light, Water, Soil   |
| Zoology Daily Test 40   | Biotechnology-Principles and Processes:- Processes of recombinant DNA technology   |
| Botany Daily Test 41    | Organisms and Populations:-Response to abiotic factors, Adaptations  |

**DAILY TEST SCHEDULE & SYLLABUS (VOLUME 1 – APRIL)**

| Test Name             | Test Syllabus   |
|-----------------------|---|
| Zoology Daily Test 41 | Biotechnology and its Applications:-Biotechnological applications in agriculture–Bt cotton, Pest resistant plants   |
| Botany Daily Test 42  | Organisms and Populations:-Population – characteristics, growth, growth models  |
| Zoology Daily Test 42 | Biotechnology and its Applications:-Biotechnological applications in medicine–Genetically engineered insulin, Gene Therapy, Molecular Diagnosis   |
| Botany Daily Test 43  | Organisms and Populations:-Population interactions.   |
| Zoology Daily Test 43 | Biotechnology and its Applications:-Transgenic Animals, Ethical Issues, Biopiracy   |
| Botany Daily Test 44  | Ecosystem:-Introduction, Types of ecosystem, Components of ecosystem, Ecosystem structure, Productivity and decomposition.  |
| Zoology Daily Test 44 | Revision Test   |
| Botany Daily Test 45  | Ecosystem:-Energy flow, Ecological pyramids, Nutrient cycling   |
| Botany Daily Test 46  | Ecosystem:-Ecological succession, Ecosystem services.   |
| Botany Daily Test 47  | Biodiversity and Conservation:-Introduction, Levels of biodiversity, How many species are there on earth and how many in India?, Patterns of biodiversity, Importance of biodiversity to the ecosystem. |
| Botany Daily Test 48  | Biodiversity and Conservation:-Loss of biodiversity and its conservation.   |
| Botany Daily Test 49  | Environmental Issues:-Introduction, Air pollution and its control   |
| Botany Daily Test 50  | Environmental Issues:-Noise pollution, Water pollution and its control, Solid waste., Agrochemicals and their effects, Radioactive pollution  |
| Botany Daily Test 51  | Environmental Issues:-Greenhouse effect and global warming, Ozone depletion, Degradation by improper resource utilization and maintenance, Deforestation.   |

**DAILY TEST SCHEDULE & SYLLABUS (VOLUME 2 – SEPTEMBER)**

| Test Name               | Test Syllabus  |
|-------------------------|--|
| Chemistry Daily Test 37 | Haloalkanes and Haloarenes-Classification of Halogen compounds, Nomenclature of Halogen compounds, Nature of C-X bond and methods of preparation of Haloalkanes & Haloarenes           |
| Chemistry Daily Test 38 | Haloalkanes and Haloarenes-Physical properties of Haloalkanes, optical activity, Nucleophilic substitution reactions of haloalkanes  |
| Chemistry Daily Test 39 | Haloalkanes and Haloarenes-Elimination reactions in haloalkanes, Elimination versus substitution, Reactions of R-X with Na   |
| Physics Daily Test 40   | Electromagnetic Waves:-Introduction, Displacement currents, Electromagnetic waves, Electromagnetic spectrum,   |
| Chemistry Daily Test 40 | Haloalkanes and Haloarenes-Aromatic nucleophilic substitution, Elimination addition Reaction, Electrophilic substitution of ArX, Polyhalogen compounds                                 |
| Physics Daily Test 41   | Ray Optics & Optical Instruments:- Introduction, Reflection of light spherical mirrors, Refraction   |
| Chemistry Daily Test 41 | Alcohols, Phenols and Ethers-Common and IUPAC names of alcohols and ethers, Preparation of aliphatic alcohols  |
| Physics Daily Test 42   | Ray Optics & Optical Instruments:-Total internal reflection, Refraction at spherical surface, Refraction through lenses  |
| Chemistry Daily Test 42 | Alcohols, Phenols and Ethers-Preparation of aromatic alcohols and Physical properties, Chemical reactions of alcohols, phenols   |
| Physics Daily Test 43   | Ray Optics & Optical Instruments:-Refraction through a prism, Dispersion by prism, some natural phenomena due to sunlight, Optical instruments – The eye, microscope                   |
| Chemistry Daily Test 43 | Alcohols, Phenols and Ethers-Preparation of ethers, Physical properties of ethers, Chemical properties of ethers, Some commercially important alcohols and ethers                      |
| Physics Daily Test 44   | Ray Optics & Optical Instruments:- Optical instruments – Telescope, microscope   |
| Chemistry Daily Test 44 | Aldehydes, Ketones and Carboxylic Acids-Nomenclature of Aldehydes and Ketones. Structure of carbonyl group, Preparation of Aldehydes & Ketones   |
| Physics Daily Test 45   | Wave Optics:-Introduction, Huygens Principle, Refraction and Reflection of plane waves using Huygens principle, Coherent and incoherent addition of waves, Interference of light waves |
| Chemistry Daily Test 45 | Aldehydes, Ketones and Carboxylic Acids-Physical properties of aldehydes and ketones. Nucleophilic addition reactions  |

**DAILY TEST SCHEDULE & SYLLABUS (VOLUME 2 – SEPTEMBER)**

| Test Name               | Test Syllabus  |
|-------------------------|--|
| Physics Daily Test 46   | Wave Optics:- Young's experiment, Diffraction, Polarization.   |
| Chemistry Daily Test 46 | Aldehydes, Ketones and Carboxylic Acids-Nucleophilic addition reaction followed by elimination, Reduction & oxidation reactions of aldehydes & ketones   |
| Physics Daily Test 47   | Dual Nature of Radiation and Matter:-Introduction, electron emission, photoelectric effect, experimental study of photoelectric effect, photoelectric effect and wave theory of light Einstein's photoelectric equation, energy quantum of radiation, particle nature of light the photons |
| Chemistry Daily Test 47 | Aldehydes, Ketones and Carboxylic Acids-, Halogenation & Reaction with alkalis, Nomenclature of carboxylic acids, Preparation of carboxylic acids, Physical & Chemical properties of Carboxylic acids  |
| Physics Daily Test 48   | Dual Nature of Radiation and Matter:-Wave nature of matter, Davisson and Germer Experiment.  |
| Chemistry Daily Test 48 | Amines-Amines : Structure, Nomenclature and preparation of amines  |
| Physics Daily Test 49   | Atoms:-Introduction, alpha particle scattering and Rutherford's nuclear model of atom, Atomic spectra, Bohr model of the hydrogen atom, the line spectra of the hydrogen atom, de Broglie's explanation of Bohr's second postulate quantization  |
| Chemistry Daily Test 49 | Amines- Chemical reactions of aliphatic and aromatic amines; Diazonium salts   |
| Physics Daily Test 50   | Nuclei:-Introduction, Atomic masses and composition of nucleus, size of the nucleus, Mass energy and nuclear binding energy, Nuclear force, Radioactivity, Nuclear energy.   |
| Chemistry Daily Test 50 | Biomolecules-Carbohydrates, Amino acids  |
| Physics Daily Test 51   | Semiconductor:-Introduction, Classification of metals conductors and semiconductors, Intrinsic semiconductor, Extrinsic semiconductors P – N, semiconductor diode, Application of junction diode as a rectifier special purpose P–N junction diodes  |
| Chemistry Daily Test 51 | Polymers-Types of polymerisation, classification and monomers of different polymers  |
| Chemistry Daily Test 52 | Polymers-Biodegradable polymer and polymers of commercial importance   |
| Chemistry Daily Test 53 | Chemistry in Everyday Life-Chemistry in Everyday Life  |

**AIATS for NEET**

| Test No.               | Test Date   | Date of Display of Answer key and uploading of Video Solutions | Result Date  | Subject | Topics of the Test  |
|------------------------|-------------|--|--|---------|---|
| Practice Test-1 Online | 7-Aug-2022  | NA   | Practice Test Results can be viewed after submission of Test | Phy     | Electric Charges and Fields, Electrostatic Potential and Capacitance, Current Electricity   |
|                        |             |  |  | Chem    | The Solid State, Solutions, Electrochemistry, Chemical Kinetics   |
|                        |             |  |  | Bio     | Reproduction in organisms, Sexual Reproduction in Flowering Plants, Human Reproduction  |
| 1.                     | 14-Aug-2022 | 16-Aug-2022  | 3-Sep-2022   | Phy     | Electric Charges and Fields, Electrostatic Potential and Capacitance, Current Electricity   |
|                        |             |  |  | Chem    | The Solid State, Solutions, Electrochemistry, Chemical Kinetics   |
|                        |             |  |  | Bio     | Reproduction in Organisms, Sexual Reproduction in Flowering plants, Human Reproduction  |
| 2.                     | 18-Sep-2022 | 20-Sep-2022  | 1-Oct-2022   | Phy     | Moving Charges and Magnetism, Magnetism and Matter, Electromagnetic Induction   |
|                        |             |  |  | Chem    | Surface Chemistry, General Principles and Processes of Isolation of Elements, The p-block elements (Group-15 to 18)   |
|                        |             |  |  | Bio     | Principles of Inheritance and Variation, Molecular Basis of inheritance, Reproductive Health, Evolution   |
| 3.                     | 20-Nov-2022 | 22-Nov-2022  | 10-Dec-2022  | Phy     | Alternating Current, Electromagnetic Wave, Ray Optics & Optical instruments, Wave Optics  |
|                        |             |  |  | Chem    | The d- & f-Block Elements, Coordination Compounds, Haloalkanes and Haloarenes, Alcohols, Phenols and Ethers   |
|                        |             |  |  | Bio     | Strategies for Enhancement in Food Production, Microbes in Human Welfare, Organisms and Populations, Human Health & Disease, Strategies for Enhancement in Food Production - Animal Husbandry |

AIATS for NEET

| Test No. | Test Date   | Date of Display of Answer key and uploading of Video Solutions | Result Date | Subject | Topics of the Test   |
|----------|-------------|--|-------------|---------|--|
| 4.       | 18-Dec-2022 | 20-Dec-2022  | 7-Jan-2023  | Phy     | Dual Nature of Radiation and Matter, Atoms, Nuclei, Semiconductors   |
|          |             |  |             | Chem    | Aldehydes, Ketones and Carboxylic Acids, Amines, Biomolecules, Polymers, Chemistry in Everyday Life  |
|          |             |  |             | Bio     | Ecosystem, Biodiversity and conservation, Environmental issues, Biotechnology: Principles and Processes, Biotechnology and Its Applications                        |
| 5.       | 8-Jan-2023  | 10-Jan-2023  | 21-Jan-2023 | Phy     | Physical World, Units & Measurements, Motion in a Straight Line, Motion in a Plane   |
|          |             |  |             | Chem    | Some Basic Concept of Chemistry, Structure of Atom, Classification of Elements and Periodicity in Properties, Chemical Bonding and Molecular Structure.            |
|          |             |  |             | Bio     | Cell: The Unit Life, Cell Cycle & Cell division, The Living World, Structural Organisation in Animals: Animal Tissues only, Biomolecules, Digestion and Absorption |
| 6.       | 22-Jan-2023 | 24-Jan-2023  | 4-Feb-2023  | Phy     | Laws of Motion, Work, Energy and Power, System of Particles & Rotational Motion  |
|          |             |  |             | Chem    | States of Matter: Gases and Liquids, Thermodynamics, Equilibrium   |
|          |             |  |             | Bio     | Biological Classification, Morphology of Flowering Plants, Breathing and Respiration, Body Fluids and Circulation, Excretory Products and Their Elimination        |
| 7.       | 5-Feb-2023  | 7-Feb-2023   | 18-Feb-2023 | Phy     | Gravitation, Mechanical Properties of Solids and Fluids, Thermal Properties of Matter  |
|          |             |  |             | Chem    | Redox Reactions, Hydrogen, The s-block elements, Some p- block Elements (Group-13 & 14)  |
|          |             |  |             | Bio     | Anatomy of Flowering Plants, Plant Kingdom, Locomotion and Movement, Neural Control and Coordination, Chemical Coordination and Integration                        |

AIATS for NEET

| Test No. | Test Date   | Date of Display of Answer key and uploading of Video Solutions | Result Date | Subject | Topics of the Test  |
|----------|-------------|--|-------------|---------|---|
| 8.       | 19-Feb-2023 | 21-Feb-2023  | 4-Mar-2023  | Phy     | Thermodynamics, Kinetic Theory, Oscillations and Waves  |
|          |             |  |             | Chem    | Organic Chemistry: Some Basic Principles & Techniques, Hydrocarbons, Environmental Chemistry  |
|          |             |  |             | Bio     | Transport in Plants, Mineral Nutrition, Photosynthesis in higher plants, Respiration in plants, Plant Growth and Development, Animal Kingdom and Structural organisation of animals: Animal Morphology (Cockroach only) |
| 9.       | 2-Apr-2023  | 4-Apr-2023   | 15-Apr-2023 | PCB     | Open Mock Test on Complete Syllabus of NEET   |
| 10.      | 16-Apr-2023 | 18-Apr-2023  | 29-Apr-2023 | PCB     | Open Mock Test on Complete Syllabus of NEET   |
| 11.      | 30-Apr-2023 | 2-May-2023   | 13-May-2023 | PCB     | Open Mock Test on Complete Syllabus of NEET   |
| 12.      | 14-May-2023 | 16-May-2023  | 20-May-2023 | PCB     | Open Mock Test on Complete Syllabus of NEET   |
| 13.      | 21-May-2023 | 23-May-2023  | 27-May-2023 | PCB     | Open Mock Test on Complete Syllabus of NEET   |
| 14.      | 28-May-2023 | 30-May-2023  | 3-Jun-2023  | PCB     | Open Mock Test on Complete Syllabus of NEET   |

**COMPREHENSIVE TEST PACKAGE (XII CF)**

**ONLINE TEST SCHEDULE**

| Date        | Day      | Test No. | Details   |
|-------------|----------|----------|---|
| 28-May-2022 | Saturday | UT -1    | Physics - Electric Charges and Field, Electrostatic Potential and Capacitance<br>Chemistry - The Solid State, Solution<br>Botany - Reproduction in Organisms, Sexual Reproduction in Flowering Plants<br>Zoology - Reproduction in Organism, Human Reproduction   |
| 16-Jul-2022 | Saturday | UT -2    | Physics - Current Electricity, Moving Charges & Magnetism<br>Chemistry - The Solid State, Solution, Electrochemistry, Chemical Kinetics, Surface Chemistry<br>Botany - Principles of Inheritance and Variation, Molecular Basis of Inheritance<br>Zoology - Reproductive Health, Evolution  |
| 16-Aug-2022 | Tuesday  | UT-3     | Physics - Magnetism and Matter, Electromagnetic Induction, Alternating Current<br>Chemistry - General Principles & Processes of Isolation of Elements, The p-Block Elements (XII), The d & f-Block Elements<br>Botany - Strategies for Enhancement in Food Production, Microbes in Human Welfare, Organisms and Populations<br>Zoology - Human Health & Disease, Strategies for Enhancement in Food Production - Animal Husbandry |
| 30-Aug-2022 | Saturday | PT-1     | Test on Topics covered in Test -1 to Test -3  |
| 19-Nov-2022 | Saturday | UT-4     | Physics - Electromagnetic Waves, Ray Optics and Optical Instruments<br>Chemistry - Coordination Compounds, Haloalkanes and Haloarenes, Alcohols, Phenols and Ethers<br>Botany - Ecosystem, Biodiversity and Conservation, Environmental Issues<br>Zoology - Biotechnology - Principles and Processes, Biotechnology and its Applications  |

**COMPREHENSIVE TEST PACKAGE (XII CF)**
**ONLINE TEST SCHEDULE**

| Date        | Day      | Test No. | Details   |
|-------------|----------|----------|---|
| 3-Dec-2022  | Saturday | UT-5     | Physics - Wave Optics, Dual Nature of Radiation and Matter, Atoms<br>Chemistry - Aldehydes, Ketones and Carboxylic Acids, Amines<br>Botany - Topics Covered in T 1 and T 2<br>Zoology - Topics Covered in T 1 and T 2                       |
| 17-Dec-2022 | Saturday | UT-6     | Physics - Nuclei, Semiconductor Electronics : Materials, Devices and Simple Circuits<br>Chemistry - Biomolecules, Polymers, Chemistry in Everyday life<br>Botany - Topics Covered in T 3 and T 4<br>Zoology - Topics Covered in T 3 and T 4 |
| 3-Jan-2023  | Tuesday  | PT-2     | Test on Topics covered in Test -4 to Test -6  |
| 24-Mar-2023 | Friday   | FST-1    | Complete Syllabus Test - NEET Pattern (Class XII)   |
| 31-Mar-2023 | Friday   | FST-2    | Complete Syllabus Test - NEET Pattern (Class XI & XII)  |
| 7-Apr-2023  | Friday   | FST-3    | Complete Syllabus Test - NEET Pattern (Class XI & XII)  |
| 14-Apr-2023 | Friday   | FST-4    | Complete Syllabus Test - NEET Pattern (Class XI & XII)  |
| 21-Apr-2023 | Friday   | FST-5    | Complete Syllabus Test - NEET Pattern (Class XI & XII)  |
| 28-Apr-2023 | Friday   | FST-6    | Complete Syllabus Test - NEET Pattern (Class XI & XII)  |

**UT**- Unit Test | **PT**- Part Test | **CT**- Cumulative Test | **FST**- Full Syllabus Test



# Thank You

**ALL THE BEST FOR YOUR EXAMS!!**