Aakash BYJU'S

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:-Megasporogenesis, 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–Various types 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 : N2, NH3, Oxides of Nitrogen, HNO3, P-Allotropic forms, PH3,
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: O2, 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 KMnO4 and K2Cr2O7
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 propereties 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 alkalies, 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 SCHEDULE FOR CLASS XII (CF + OYM) 2022-23

Version 2.0
Release Date : 11-04-2022

Aakash + BYJU'S

Test No.	Test Date	Date of Display of Answer Key	Result Date	Subject	Topics
Practice Test-1 Online	07.08.2022	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, Reproduction in organisms, Human Reproduction
1.	14.08.2022	16.08.2022	03.09.2022	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, Reproduction in organisms, Human Reproduction
2.	18.09.2022	20.09.2022	01.10.2022	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.	20.11.2022	22.11.2022	10.12.2022	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
4.	11.12.2022	13.12.2022	07.01.2023	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.	08.01.2023	10.01.2023	21.01.2023	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.	22.01.2023	24.01.2023	04.02.2023	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

Test No.	Test Date	Date of Display of Answer Key	Result Date	Subject	Topics
7.	05.02.2023	07.02.2023	18.02.2023	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
8.	19.02.2023	21.02.2023	04.03.2023	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.	02.04.2023	04.04.2023	15.04.2023	PCB	Open Mock Test on Complete Syllabus of NEET
10.	16.04.2023	18.04.2023	29.04.2023	PCB	Open Mock Test on Complete Syllabus of NEET
11.	30.04.2023	02.05.2023	13.05.2023	PCB	Open Mock Test on Complete Syllabus of NEET
12.	14.05.2023	16.05.2023	20.05.2023	PCB	Open Mock Test on Complete Syllabus of NEET
13.	21.05.2023	23.05.2023	27.05.2023	PCB	Open Mock Test on Complete Syllabus of NEET
14.	28.05.2023	30.05.2023	03.06.2023	PCB	Open Mock Test on Complete Syllabus of NEET

Test Duration : 200 Minutes

Students can find Answer Key & Text Solutions in their **AESL** account on **www.aakash.ac.in**.

Step-01 : Login to your account with user id & password.

Step-02 : Go to side bar for Answer Key & Text Solutions. Click on **'Answer Key & Text Solutions'.**

The AIATS tests shall be conducted in offline mode. However, if the test is conducted in online mode, then following instructions will be applicable:

The AIATS tests shall be available to attempt online for 48 hours from its scheduled date of test. *e.g.*, If a test is scheduled on 14th August, 2022 then the test shall be made live at 10:00 AM on 14th August and will be available till 10:00 AM on 16th August 2022. Post that students shall not be able to attempt the test to get All India Rank however tests shall be available for attempt later also, wherein students shall be able to get reference ranking only. Test Timings are subject to change hence please check the Timings from the respective Centre / DLP department before the Exam Date. The venue of AIATS is subject to change in short notice in case the exam is scheduled in offline mode.

Note in case of online mode:

- ❖ Parents to ensure students give exam with full honesty and continuity.
- ❖ Students giving test early is recommended and not to wait for 48 hours to finish.

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 Chemistry - The Solid State, Solution Botany - Reproduction in Organisms, Sexual Reproduction in Flowering Plants Zoology - Reproduction in Organism, Human Reproduction
16-Jul-2022	Saturday	UT -2	Physics - Current Electricity, Moving Charges & Magnetism Chemistry - The Solid State, Solution, Electrochemistry, Chemical Kinetics, Surface Chemistry Botany - Principles of Inheritance and Variation, Molecular Basis of Inheritance Zoology - Reproductive Health, Evolution
16-Aug-2022	Tuesday	UT-3	Physics - Magnetism and Matter, Electromagnetic Induction, Alternating Current Chemistry - General Principles & Processes of Isolation of Elements, The p-Block Elements (XII), The d & f-Block Elements Botany - Strategies for Enhancement in Food Production, Microbes in Human Welfare, Organisms and Populations 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 Chemistry - Coordination Compounds, Haloalkanes and Haloarenes, Alcohols, Phenols and Ethers Botany - Ecosystem, Biodiversity and Conservation, Environmental Issues 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 Chemistry - Aldehydes, Ketones and Carboxylic Acids, Amines Botany - Topics Covered in T 1 and T 2 Zoology - Topics Covered in T 1 and T 2
17-Dec-2022	Saturday	UT-6	Physics - Nuclei, Semiconductor Electronics : Materials, Devices and Simple Circuits Chemistry - Biomolecules, Polymers, Chemistry in Everyday life Botany - Topics Covered in T 3 and T 4 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!!