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AAKASH TEST PLANNER :
DAILY PRACTICE TEST SCHEDULE & SYLLABUS FOR CLASS-XI

DPT NAME	SYLLABUS
Botany Daily Test 01 for_Class_11th_Medical	Cell: The Unit of Life:- Introduction, What is a cell?, Cell theory, An overview of cell, Prokaryotic cell-structure, Gram staining, Eukaryotic cell structure
Botany Daily Test 02 for_Class_11th_Medical	Cell: The Unit of Life:- Difference between prokaryotic and eukaryotic cell, difference between plant cell and animal cell, plasma membrane
Botany Daily Test 03 for_Class_11th_Medical	Cell: The Unit of Life:- Cell wall, endomembrane system– endoplasmic reticulum, golgi body
Botany Daily Test 04 for_Class_11th_Medical	Cell: The Unit of Life:- Lysosome, Vacuole; Mitochondria, Plastid
Botany Daily Test 05 for_Class_11th_Medical	Cell: The Unit of Life:- Ribosome, Cytoskeleton, Centrosome and centrioles, Cilia and flagella
Botany Daily Test 06 for_Class_11th_Medical	Cell: The Unit of Life:- Nucleus, Chromosomes, Microbodies.
Botany Daily Test 07 for_Class_11th_Medical	Cell Cycle & Cell Division:- Introduction, Cell cycle–phases of cell cycle, Mitosis–definition
Botany Daily Test 08 for_Class_11th_Medical	Cell Cycle & Cell Division:- Karyokinesis, cytokinesis, significance, Meiosis–definition
Botany Daily Test 09 for_Class_11th_Medical	Cell Cycle & Cell Division:- Meiosis-I, Meiosis-II, significance of meiosis
Botany Daily Test 10 for_Class_11th_Medical	The living world:- Introduction, What is living?, Characteristics of living beings
Botany Daily Test 11 for_Class_11th_Medical	The living world:- Diversity in the living world, Nomenclature, Need for classification, Classification - Taxonomy, Systematics
Botany Daily Test 12 for_Class_11th_Medical	The living world:- Taxonomic categories
Botany Daily Test 13 for_Class_11th_Medical	The living world:- Texanomic categories, Taxonomical aids- Herbarium,
Botany Daily Test 14 for_Class_11th_Medical	The living world:- Botanical gardens, Museum, Zoological parks, Key, Flora, Manual, Monographs, Catalogues.
Botany Daily Test 15 for_Class_11th_Medical	Biological Classification:- Introduction, Kingdom system of classification- two kingdom, three kingdom, four kingdom, five kingdom
Botany Daily Test 16 for_Class_11th_Medical	Biological Classification:- Six kingdom, Domains of life, Kingdom Monera- Characters of monera, Shape of bacteria, Bacterial Life process - Respiration, Nutrition
Botany Daily Test 17 for_Class_11th_Medical	Biological Classification:- Reproduction- Asexual, Sexual recombination
Botany Daily Test 18 for_Class_11th_Medical	Biological Classification:- Economic importance of bacteria, Archaebacteria-methanogens, halophiles, thermoacidophiles
Botany Daily Test 19 for_Class_11th_Medical	Biological Classification:- Eubacteria – Cyanobacteria, Mycoplasma.
Botany Daily Test 20 for_Class_11th_Medical	Biological Classification:- Protista-General characters, Chrysophytes, Dinoflagellates, Euglenoids
Botany Daily Test 21 for_Class_11th_Medical	Biological Classification:- Slime moulds, Protozoans-major groups with some salient features
Botany Daily Test 22 for_Class_11th_Medical	Biological Classification:- Fungi-general characters
Botany Daily Test 23 for_Class_11th_Medical	Biological Classification:- Reproduction in fungi
Botany Daily Test 24 for_Class_11th_Medical	Biological Classification:- Characters of different classes of fungi - Phycomycetes, Ascomycetes

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DPT NAME	SYLLABUS
Botany Daily Test 25 for_Class_11th_Medical	Biological Classification:- Basidiomycetes, Salient features of Agaricus & Puccinia, Deuteromycetes
Botany Daily Test 26 for_Class_11th_Medical	Biological Classification:- Virus–introduction, discovery, structural components, Structure of some viruses (TMV, bacteriophages)
Botany Daily Test 27 for_Class_11th_Medical	Biological Classification:- Reproduction in virus, Diseases, Sub-viral agents – Viroids, Virusoids, Prions; Lichens, Mycorrhiza
Botany Daily Test 28 for_Class_11th_Medical	Morphology of Flowering Plants:- Introduction, Root–types, function, regions, modifications
Botany Daily Test 29 for_Class_11th_Medical	Morphology of Flowering Plants:- Introduction of stem, bud, function of stem, modification of stem
Botany Daily Test 30 for_Class_11th_Medical	Morphology of Flowering Plants:- Leaf–introduction, parts, venation, types (simple and compound leaf), Leaf-Phyllotaxy, Modifications
Botany Daily Test 31 for_Class_11th_Medical	Morphology of Flowering Plants:- Inflorescence – racemose and cymose, Flowers-terminology, symmetry
Botany Daily Test 32 for_Class_11th_Medical	Morphology of Flowering Plants:- Position of floral parts on thalamus, parts of flower (calyx and corolla), aestivation
Botany Daily Test 33 for_Class_11th_Medical	Morphology of Flowering Plants:- Androecium- adhesion, cohesion; Gynoecium, Placentation
Botany Daily Test 34 for_Class_11th_Medical	Morphology of Flowering Plants:- Fruits–parts, types, edible parts
Botany Daily Test 35 for_Class_11th_Medical	Morphology of Flowering Plants:- Structure of dicotyledonous and monocotyledonous seed, Families– brassicaceae, fabaceae, solanaceae, liliaceae.
Botany Daily Test 36 for_Class_11th_Medical	Anatomy of Flowering Plants:- Tissue, meristematic tissue - characters, types, shoot and root apex organisation
Botany Daily Test 37 for_Class_11th_Medical	Anatomy of Flowering Plants:- Primary permanent tissues i.e., parenchyma, collenchyma and sclerenchyma w.r.t. nature, distribution, cell wall and cell structure and functions, Complex permanent tissue- Xylem - components of xylem and their structures
Botany Daily Test 38 for_Class_11th_Medical	Anatomy of Flowering Plants:- Primary and secondary xylem, primary xylem– protoxylem and metaxylem Phloem- components, types of phloem (on the basis of position and origin), Tissue system - epidermal, ground and vascular; Types of vascular bundles
Botany Daily Test 39 for_Class_11th_Medical	Anatomy of Flowering Plants:- Internal structures of root, stem and leaf, Definition of secondary growth, types of tissues involved

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DPT NAME	SYLLABUS
Botany Daily Test 40 for_Class_11th_Medical	Anatomy of Flowering Plants:- Secondary growth in dicot stem-formation and activity of vascular cambium in stelar region, Secondary structures in stelar region - annual rings, heartwood and sapwood, Formation and activity of cork cambium in extra stelar region, periderm, bark, lenticels, Secondary growth in dicot root - origin and activity of vascular cambium in stelar region and cork cambium from pericycle.
Botany Daily Test 41 for_Class_11th_Medical	Plant Kingdom:- Introduction of plant kingdom, Classification systems– artificial, natural and phylogenetic, Branches of taxonomy
Botany Daily Test 42 for_Class_11th_Medical	Plant Kingdom:- Algae-general characters
Botany Daily Test 43 for_Class_11th_Medical	Plant Kingdom:- Economic importance of algae, Characters of different classes of algae- chlorophyceae
Botany Daily Test 44 for_Class_11th_Medical	Plant Kingdom:- Phaeophyceae, rhodophyceae
Botany Daily Test 45 for_Class_11th_Medical	Plant Kingdom:- Bryophytes–general characters
Botany Daily Test 46 for_Class_11th_Medical	Plant Kingdom:-Bryophytes & Pteridophtes
Botany Daily Test 47 for_Class_11th_Medical	Plant Kingdom:- Pteridophytes– general characters, classes
Botany Daily Test 48 for_Class_11th_Medical	Plant Kingdom:- Salient features of Selaginella & Pteris, Economic importance
Botany Daily Test 49 for_Class_11th_Medical	Plant Kingdom:- Gymnosperms – general characters
Botany Daily Test 50 for_Class_11th_Medical	Plant Kingdom:- Salient Features of Cycas & Pinus, Economic importance
Botany Daily Test 51 for_Class_11th_Medical	Plant Kingdom:- Angiosperms - general characters, Economic importance of angiosperms, Life cycle patterns.
Botany Daily Test 52 for_Class_11th_Medical	Transport in Plants:- Introduction, Means of transport
Botany Daily Test 53 for_Class_11th_Medical	Transport in Plants:- Plant water relations–water potential, osmosis, DPD, TP
Botany Daily Test 54 for_Class_11th_Medical	Transport in Plants:- Plasmolysis, imbibition, Long distance transport of water – absorption of water (apoplast pathway, symplast pathway)
Botany Daily Test 55 for_Class_11th_Medical	Transport in Plants:- Mechanism of absorption, Ascent of sap– root pressure (including guttation), Transpiration pull
Botany Daily Test 56 for_Class_11th_Medical	Transport in Plants:- Transpiration – structure of stomata, mechanism of opening and closing of stomata, factors affecting transpiration, significance, Transpiration and photosynthesis – a compromise
Botany Daily Test 57 for_Class_11th_Medical	Transport in Plants:- Uptake and transport of mineral, Nutrients, Phloem transport–pressure flow or mass flow hypothesis, Demonstration of translocation of food by phloem by girdling experiment.
Botany Daily Test 58 for_Class_11th_Medical	Mineral Nutrition:- Introduction, Methods to study the mineral requirement of plants, Essential mineral elements, Criteria for essentiality, Classification of essential elements

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DPT NAME	SYLLABUS
Botany Daily Test 59 for_Class_11th_Medical	Mineral Nutrition:- Role of macro and micronutrients, Mechanism of absorption of elements, Translocation of mineral solutes, Soil as reservoir of essential elements
Botany Daily Test 60 for_Class_11th_Medical	Mineral Nutrition:- Metabolism of nitrogen– nitrogen cycle, biological nitrogen fixation, fate of ammonia.
Botany Daily Test 61 for_Class_11th_Medical	Photosynthesis in Higher Plants:- Introduction, Importance, What do we know?, Historical account, Where does photosynthesis take place? Photosynthetic pigments,
Botany Daily Test 62 for_Class_11th_Medical	Photosynthesis in Higher Plants:- Absorption spectrum and action spectrum, What is light reaction?, Electron transport system
Botany Daily Test 63 for_Class_11th_Medical	Photosynthesis in Higher Plants:- Splitting of water, Cyclic and non-cyclic photophosphorylation
Botany Daily Test 64 for_Class_11th_Medical	Photosynthesis in Higher Plants:- Chemiosmotic theory, Dark reaction– C3
Botany Daily Test 65 for_Class_11th_Medical	Photosynthesis in Higher Plants:- C4 cycles, Difference between C3 & C4-plants
Botany Daily Test 66 for_Class_11th_Medical	Photosynthesis in Higher Plants:- Photorespiration, factors affecting photosynthesis.
Botany Daily Test 67 for_Class_11th_Medical	Respiration in Plants:- Introduction, Respiratory substrates, Do plant breath?, Glycolysis (mechanism)
Botany Daily Test 68 for_Class_11th_Medical	Respiration in Plants:- Fermentation, Aerobic respiration– link reaction, Krebs cycle
Botany Daily Test 69 for_Class_11th_Medical	Respiration in Plants:- Electron transport system and oxidative phosphorylation, Respiratory balance sheet, Amphibolic pathway, Respiratory quotient.
Botany Daily Test 70 for_Class_11th_Medical	Plant Growth and Development:- Growth, differentiation and development. Growth - characteristics, phases of growth, growth curve, growth rates - arithmetic growth and geometric growth, Absolute growth rate and relative growth rate. Differentiation, Dedifferentiation and Redifferentiation, Definition with examples, Development - Definition, factors regulating it, plasticity
Botany Daily Test 71 for_Class_11th_Medical	Plant Growth and Development:- Growth hormones : Auxins, Gibberellins
Botany Daily Test 72 for_Class_11th_Medical	Plant Growth and Development : Cytokinin, w.r.t. their discovery, nature, types, biosynthesis, transport, functions, Growth hormones - Ethylene, abscisic acid w.r.t. all above features
Botany Daily Test 73 for_Class_11th_Medical	Plant Growth and Development : Dormancy - cause of dormancy, breaking of dormancy, seed germination, vivipary, Photoperiodism : Definition and discovery, photoperceptive site and pigments (phytochrome) LDP, SDP and DNP Vernalisation - introduction, discovery, site, requirements, features/characters, examples

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DAILY PRACTICE TEST SCHEDULE & SYLLABUS FOR CLASS-XI

DPT NAME	SYLLABUS
Chemistry Daily Test 01 for_Class_11th_Medical	Some Basic Concepts of Chemistry:-Importance of chemistry, Nature of matter, Properties of matter and their measurement : Mass and weight, volume, density, temperature, Uncertainty in measurement, Scientific notation, Multiplication and division, Addition and subtraction, Significant figures, Dimensional analysis.
Chemistry Daily Test 02 for_Class_11th_Medical	Some Basic Concepts of Chemistry:-Laws of chemical combination : Law of conservation of mass, Law of definite proportions, Law of multiple proportions
Chemistry Daily Test 03 for_Class_11th_Medical	Some Basic Concepts of Chemistry:-Gay lussac's law of gaseous volumes, Avogadro law, Dalton's atomic theory.
Chemistry Daily Test 04 for_Class_11th_Medical	Some Basic Concepts of Chemistry:-Atomic and molecular masses : Atomic mass, Average atomic mass, Molecular mass, Formula mass
Chemistry Daily Test 05 for_Class_11th_Medical	Some Basic Concepts of Chemistry:-Mole concept
Chemistry Daily Test 06 for_Class_11th_Medical	Some Basic Concepts of Chemistry:-Percentage composition, Empirical formula
Chemistry Daily Test 07 for_Class_11th_Medical	Some Basic Concepts of Chemistry:-Stoichiometry and Stoichiometric calculations.
Chemistry Daily Test 08 for_Class_11th_Medical	Some Basic Concepts of Chemistry:-Calculations regarding limiting reagents
Chemistry Daily Test 09 for_Class_11th_Medical	Some Basic Concepts of Chemistry:- Reactions in solutions : Mass percentage or weight percentage, Mole-fraction, Molarity, Molality
Chemistry Daily Test 10 for_Class_11th_Medical	Some Basic Concepts of Chemistry:-Molarity, Molality
Chemistry Daily Test 11 for_Class_11th_Medical	Structure of Atom:-Sub-atomic particles : Discovery of electron, Charge to mass ratio of electron, Charge on electron, Discovery of proton and neutron. Thomson model of atom, Rutherford's nuclear model of atom, Atomic and Mass number, Isobars and isotopes.
Chemistry Daily Test 12 for_Class_11th_Medical	Structure of Atom:-Particle nature of electromagnetic radiation : Plank's quantum theory, Photoelectric effect, Dual behaviour of electromagnetic radiation.
Chemistry Daily Test 13 for_Class_11th_Medical	Structure of Atom:-Emission and absorption spectra, Line spectrum of hydrogen, Bohr's model for hydrogen atom, Explanation of Bohr's model.
Chemistry Daily Test 14 for_Class_11th_Medical	Structure of Atom:-Dual behaviour of matter, Heisenberg's uncertainty principle, Significance of uncertainty principle, Reason for the failure of the Bohr model.
Chemistry Daily Test 15 for_Class_11th_Medical	Structure of Atom:-Quantum mechanics, Hydrogen atom and the Schrodinger equation, Orbitals and Quantum numbers
Chemistry Daily Test 16 for_Class_11th_Medical	Structure of Atom:-Shapes of atomic orbitals, Energies of orbitals, Filling of orbitals in atom : Aufbau principle
Chemistry Daily Test 17 for_Class_11th_Medical	Structure of Atom:-Pauli exclusion principle, Hunds rule of maximum multiplicity
Chemistry Daily Test 18 for_Class_11th_Medical	Structure of Atom:-Electronic configuration of atoms, Stability of completely filled and half filled sub-shells.

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AAKASH TEST PLANNER :
DAILY PRACTICE TEST SCHEDULE & SYLLABUS FOR CLASS-XI

DPT NAME	SYLLABUS
Chemistry Daily Test 19 for_Class_11th_Medical	Classification of Elements and Periodicity in Properties:-Genesis of periodic classification, Modern periodic law and the present form of the periodic table. Nomenclature of elements with atomic numbers > 100, Electronic configurations in periods, Groupwise electronic configuration, s, p, d& f-block elements, Metals, Non-metals and metalloids,
Chemistry Daily Test 20 for_Class_11th_Medical	Classification of Elements and Periodicity in Properties:-Trends in physical properties : Atomic radius, Ionic radius, Ionisation enthalpy, Electron gain enthalpy, Electronegativity.
Chemistry Daily Test 21 for_Class_11th_Medical	Classification of Elements and Periodicity in Properties:-Periodic trends in chemical properties : Oxidation states, Anomalous properties of second period elements. Periodic trends and chemical reactivity.
Chemistry Daily Test 22 for_Class_11th_Medical	Chemical Bonding and Molecular Structure:-Kossel-Lewis approach to chemical bonding, Octet rule, Covalent bond, Lewis representation of simple molecules, Formal charge
Chemistry Daily Test 23 for_Class_11th_Medical	Chemical Bonding and Molecular Structure:-Limitations of octet rule : Incomplete octet of the central atom, odd-electron molecule, The expanded octet.
Chemistry Daily Test 24 for_Class_11th_Medical	Chemical Bonding and Molecular Structure:-Ionic or electrovalent bond, Lattice enthalpy bond parameters : Bond length, Bond angles, Bond enthalpy
Chemistry Daily Test 25 for_Class_11th_Medical	Chemical Bonding and Molecular Structure:-Bond-order, Resonance structures
Chemistry Daily Test 26 for_Class_11th_Medical	Chemical Bonding and Molecular Structure:-Polarity of bonds : Dipole moment, Percentage ionic character, The valence shell electron pair repulsion theory.
Chemistry Daily Test 27 for_Class_11th_Medical	Chemical Bonding and Molecular Structure:-Valence bond theory : Orbital overlap concept, Directional properties of bonds, Overlapping of atomic orbitals
Chemistry Daily Test 28 for_Class_11th_Medical	Chemical Bonding and Molecular Structure:-Types of overlapping and nature of covalent bonds. Strength of s & p-bonds.
Chemistry Daily Test 29 for_Class_11th_Medical	Chemical Bonding and Molecular Structure:-Hybridisation : Features and conditions, Types of hybridisation : sp, sp2, sp3, dsp2, sp3d, sp3d2 and hybridisation.
Chemistry Daily Test 30 for_Class_11th_Medical	Chemical Bonding and Molecular Structure:-Molecular orbital theory : Features, Linear combination of atomic orbitals, Conditions for the combination of atomic orbitals, Types of molecular orbitals.
Chemistry Daily Test 31 for_Class_11th_Medical	Chemical Bonding and Molecular Structure:-Energy level diagram for molecular orbitals, Electronic configuration and molecular behaviour, Bonding in some homonuclear diatomic molecules, Hydrogen bonding.
Chemistry Daily Test 32 for_Class_11th_Medical	States of Matter:-Intermoleular forces : London forces, Dipole-dipole forces, Dipole-induced dipole forces, Intermolecular forces vs thermal interactions
Chemistry Daily Test 33 for_Class_11th_Medical	States of Matter:-The gaseous state : Boyle's law, Charle's law, Gay Lussac' law, Avogadro law

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DPT NAME	SYLLABUS
Chemistry Daily Test 34 for_Class_11th_Medical	States of Matter:-Ideal gas equation, Dalton's law of partial pressures, Graham's law of diffusion
Chemistry Daily Test 35 for_Class_11th_Medical	States of Matter:-Kinetic molecular theory of gases : Maxwell-Boltzmann distribution of molecular speeds, Root mean square, Most probable and average speeds.
Chemistry Daily Test 36 for_Class_11th_Medical	States of Matter:-Deviation from ideal gas behaviour : Pressure correction and volume correction, Compressibility factor, Critical constants and liquifaction of gases, Liquid state.
Chemistry Daily Test 37 for_Class_11th_Medical	Thermodynamics:-Thermodynamic terms : System and surroundings, Types of system, The state of the system, The internal energy as a state function : Work & Heat, First law of thermodynamics
Chemistry Daily Test 38 for_Class_11th_Medical	Thermodynamics:-Isothermal and free expansion of an ideal gas. Extensive and intensive properties.
Chemistry Daily Test 39 for_Class_11th_Medical	Thermodynamics:- Heat capacity, Relation between Cv & Cp for an ideal gas; Calorimetry, enthalpy and thermo chemical equation. Hess's law of constant heat summation.
Chemistry Daily Test 40 for_Class_11th_Medical	Thermodynamics:-Enthalpy of combustion, Atomization, Bond-dissociation, Solution, Lattice and neutralisation.
Chemistry Daily Test 41 for_Class_11th_Medical	Thermodynamics:-Spontaneity and entropy, Second law of thermodynamics, Free energy change and criteria for spontaneity, Third law of thermodynamics.
Chemistry Daily Test 42 for_Class_11th_Medical	Equilibrium:-Chemical equilibrium : Liquid-vapour, Solid-liquid and solid-vapour equilibria, General characteristics of equilibria involving physical and chemical process, Law of chemical equilibrium and equilibrium constant, Homogeneous and heterogeneous equilibria, Application of equilibrium constants. Predicting the extent and the direction of reactions. Calculating equilibrium concentrations.
Chemistry Daily Test 43 for_Class_11th_Medical	Equilibrium:-Relationship between equilibrium constant, Reaction quotient and Gibb's energy
Chemistry Daily Test 44 for_Class_11th_Medical	Equilibrium:-Factros affecting equilibria: Change in concentration, pressure, temperature and effect of catalyst and effect of addition of inert gas.
Chemistry Daily Test 45 for_Class_11th_Medical	Equilibrium:- Acids bases : Arrhenius, Bronsted-Lowry and Lewis concepts, Ionisation of acids and bases, Ionisation constant of water and its ionic product.
Chemistry Daily Test 46 for_Class_11th_Medical	Equilibrium:-The pH scale, ionisation constants of weak acids and weak bases, Relation between Ka and Kb. Di and Polybasic acid and bases.
Chemistry Daily Test 47 for_Class_11th_Medical	Equilibrium:- Factors affecting acid and bases - Strength, Common ion effect in the ionisation of acids and bases,
Chemistry Daily Test 48 for_Class_11th_Medical	Equilibrium:- Buffer solution, Salt hydrolysis and solubility product.

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DPT NAME	SYLLABUS
Chemistry Daily Test 49 for_Class_11th_Medical	Redox Reactions:-Classification idea of redox reactions, Redox reactions in terms of electron transfer reactions, Competitive electron transfer reactions
Chemistry Daily Test 50 for_Class_11th_Medical	Redox Reactions:-Oxidation number and its calculation, Fractional oxidation number, Types of redox reactions : Combination, decomposition, Displacement and disproportionation reactions, Balancing of redox reactions.
Chemistry Daily Test 51 for_Class_11th_Medical	Redox Reactions:-Redox reactions as the basis for titrations, Limitations of concept of oxidation number, Redox reactions and electrode potentials, Redox couple, Working of Daniell cell, Electrochemical series.
Chemistry Daily Test 52 for_Class_11th_Medical	Hydrogen:-Position, Occurrence, Isotopes, Preparation, Properties and uses of hydrogen hydrides.
Chemistry Daily Test 53 for_Class_11th_Medical	Hydrogen:-Hardness of H2O and its removal, H2O2 : Preparation and properties, D2O, Dihydrogen as fuel.
Chemistry Daily Test 54 for_Class_11th_Medical	The s-Block Elements:-Alkali metals : Physical and chemical properties, Salt of oxo acids, Anomalous properties of Lithium, Similarity between Li and Mg, Compounds of Na : Na2CO3.10H2O, NaCl, NaOH, NaHCO3, Biological importance of Na & K,
Chemistry Daily Test 55 for_Class_11th_Medical	The s-Block Elements:-Alkaline earth metals : Physical and chemical properties, Salts of oxoacids, Anomalous behaviour of beryllium, Diagonal relationship between Be & Al
Chemistry Daily Test 56 for_Class_11th_Medical	The s-Block Elements:-Compounds of Ca : CaO, Ca(OH)2, CaCO3, CaSO4.1/2H2O. Biological importance of Mg and Ca.
Chemistry Daily Test 57 for_Class_11th_Medical	The p-Block Elements:-General electronic configuration and oxidation states of p-block elements, Inert pair effect, The boron family : Physical and chemical properties, Compounds of boron : Borax, Orthoboric acid and diborane, Uses of B, Al and their compounds.
Chemistry Daily Test 58 for_Class_11th_Medical	The p-Block Elements:-The carbon faimly : Physical properties. ; Chemical properties of group 14 elements, Allotopes of carbon, Compounds of C and Si : CO, CO2, SiO2, silicones, silicates and geolites.
Chemistry Daily Test 59 for_Class_11th_Medical	Organic Chemistry : Some Basic Principle & Techniques:-Tetravalence of carbon, Structure of organic compounds, Classification of organic compounds
Chemistry Daily Test 60 for_Class_11th_Medical	Organic Chemistry : Some Basic Principle & Techniques:-Nomenclature of organic compounds (excluding functinoal group).
Chemistry Daily Test 61 for_Class_11th_Medical	Organic Chemistry : Some Basic Principle & Techniques:-IUPAC nomenclature of organic compounds including mono and bi functional groups.
Chemistry Daily Test 62 for_Class_11th_Medical	Organic Chemistry : Some Basic Principle & Techniques:-Isomerism : Structural isomerism including tautomerism, Stereoisomerism (Definition).

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DPT NAME	SYLLABUS
Chemistry Daily Test 63 for_Class_11th_Medical	Organic Chemistry : Some Basic Principle & Techniques:-Fundamental concepts in organic reaction, Mechanism : Bond fission, Nucelophile and electrophile
Chemistry Daily Test 64 for_Class_11th_Medical	Organic Chemistry : Some Basic Principle & Techniques:-Inductive and electromeric effect, Resonance effect.
Chemistry Daily Test 65 for_Class_11th_Medical	Organic Chemistry : Some Basic Principle & Techniques:-Hyperconjugation, Aromaticity and anti-aromaticity.
Chemistry Daily Test 66 for_Class_11th_Medical	Organic Chemistry : Some Basic Principle & Techniques:-Reaction intermediates : Carbocation, Carbanion, Carbon free radicals, Carbene.
Chemistry Daily Test 67 for_Class_11th_Medical	Organic Chemistry : Some Basic Principle & Techniques:-Types of organic reactions and mechanism : Substitution reactions
Chemistry Daily Test 68 for_Class_11th_Medical	Organic Chemistry : Some Basic Principle & Techniques:-Purification of organic compounds, Qualitative analysis, Quantitative analysis
Chemistry Daily Test 69 for_Class_11th_Medical	Hydrocarbons:-Alkanes : Nomenclature and isomerism, Preparation and Properties.
Chemistry Daily Test 70 for_Class_11th_Medical	Hydrocarbons:-Alkenes : Nomenclature and isomerism, Preparation
Chemistry Daily Test 71 for_Class_11th_Medical	Hydrocarbons:-Properties of Alkene
Chemistry Daily Test 72 for_Class_11th_Medical	Hydrocarbons:-Alkynes : Nomenclature and isomerism, Preparation, Properties of Alkyne
Chemistry Daily Test 73 for_Class_11th_Medical	Hydrocarbons:-Aromatic hydrocarbons : Nomenclature, Preparation
Physics Daily Test 01 for_Class_11th_Medical	Physical World:-What is physics, Scope & Excitement of physics, Physics technology and society
Physics Daily Test 02 for_Class_11th_Medical	Physical World:-Fundamental forces in nature, Nature of physical laws,
Physics Daily Test 03 for_Class_11th_Medical	Units & Measurements:-Introduction, International system of units, Measurement of length, Mass, Time.
Physics Daily Test 04 for_Class_11th_Medical	Units & Measurements:-Accuracy, Precision of instruments
Physics Daily Test 05 for_Class_11th_Medical	Units & Measurements:-Errors in measurements
Physics Daily Test 06 for_Class_11th_Medical	Units & Measurements:-Significant figures
Physics Daily Test 07 for_Class_11th_Medical	Units & Measurements:- Dimensions of physical quantities
Physics Daily Test 08 for_Class_11th_Medical	Units & Measurements:- Dimensional formula & dimensional equations, Dimensional analysis and its applications.
Physics Daily Test 09 for_Class_11th_Medical	Motion in a Straight Line :-Introduction, Position, Path length and displacement, Average velocity & average speed.
Physics Daily Test 10 for_Class_11th_Medical	Motion in a Straight Line :-Differential calculus
Physics Daily Test 11 for_Class_11th_Medical	Motion in a Straight Line :-Applications of differential calculus
Physics Daily Test 12 for_Class_11th_Medical	Motion in a Straight Line :-Integral calculus

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DPT NAME	SYLLABUS
Physics Daily Test 13 for_Class_11th_Medical	Motion in a Straight Line :-Applications of Integral calculus
Physics Daily Test 14 for_Class_11th_Medical	Motion in a Straight Line :-Graphs (slope, area etc.)
Physics Daily Test 15 for_Class_11th_Medical	Motion in a Straight Line :-Instantaneous velocity & speed, acceleration
Physics Daily Test 16 for_Class_11th_Medical	Motion in a Straight Line :-Kinematic equations for uniformly accelerated motion.
Physics Daily Test 17 for_Class_11th_Medical	Motion in a Straight Line :-Motion under gravity
Physics Daily Test 18 for_Class_11th_Medical	Motion in a Straight Line :-Relative velocity
Physics Daily Test 19 for_Class_11th_Medical	Motion in a Plane :-Introduction, Scalars & Vectors, Multiplication of vectors by real numbers, Addition & subtraction of vectors–graphical method.
Physics Daily Test 20 for_Class_11th_Medical	Motion in a Plane :-Resolution of vectors
Physics Daily Test 21 for_Class_11th_Medical	Motion in a Plane :-Vector addition–analytical method.
Physics Daily Test 22 for_Class_11th_Medical	Motion in a Plane :-Motion in plane, Motion in a plane with constant acceleration.
Physics Daily Test 23 for_Class_11th_Medical	Motion in a Plane :-Relative velocity in two dimensions.
Physics Daily Test 24 for_Class_11th_Medical	Motion in a Plane :-Projectile motion – Equation of path of projectile.Relative velocity
Physics Daily Test 25 for_Class_11th_Medical	Motion in a Plane :-Projectile motion – Relative velocity, Maximum height of projectile, Horizontal range of projectile.
Physics Daily Test 26 for_Class_11th_Medical	Motion in a Plane :-Uniform circular motion.
Physics Daily Test 27 for_Class_11th_Medical	Law of Motion :-Introduction, Aristotle's fallacy, The law of inertia, Newton's first law of motion
Physics Daily Test 28 for_Class_11th_Medical	Law of Motion :-Momentum, Conservation of momentum (Rocket Propulsion)
Physics Daily Test 29 for_Class_11th_Medical	Law of Motion :-Newton's 2nd law of motion
Physics Daily Test 30 for_Class_11th_Medical	Law of Motion :-Newton's third law of motion, Equlibrium of a particle
Physics Daily Test 31 for_Class_11th_Medical	Law of Motion:-Common forces in mechanics
Physics Daily Test 32 for_Class_11th_Medical	Law of Motion :-Friction
Physics Daily Test 33 for_Class_11th_Medical	Law of Motion :-Circular motion.
Physics Daily Test 34 for_Class_11th_Medical	Law of Motion :-Solving problems in mechanics.
Physics Daily Test 35 for_Class_11th_Medical	Work, Energy & Power:-Introduction, Scalar Product. Notions of work & kinetic energy, The work-energy theorem, Work, Kinetic energy
Physics Daily Test 36 for_Class_11th_Medical	Work, Energy & Power:-Work done by a variable force, The work energy theorem for variable force.
Physics Daily Test 37 for_Class_11th_Medical	Work, Energy & Power:-The concept of potential energy,Various forms of energy, The potential energy of a spring.
Physics Daily Test 38 for_Class_11th_Medical	Work, Energy & Power:-The conservation of mechanical energy, (Motion in a Vertical Circle) The law of conservation of energy

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AAKASH TEST PLANNER :
DAILY PRACTICE TEST SCHEDULE & SYLLABUS FOR CLASS-XI

DPT NAME	SYLLABUS
Physics Daily Test 39 for_Class_11th_Medical	Work, Energy & Power:-Power
Physics Daily Test 40 for_Class_11th_Medical	Work, Energy & Power:-Collisions – elastic and inelastic collision, Collision in one dimension.
Physics Daily Test 41 for_Class_11th_Medical	Work, Energy & Power:- Collision in two dimensions.
Physics Daily Test 42 for_Class_11th_Medical	System of Particles & Rotational Motion:-Introduction, Centre of mass,
Physics Daily Test 43 for_Class_11th_Medical	System of Particles & Rotational Motion:-Motion of centre of mass, Linear momentum of system of particles.
Physics Daily Test 44 for_Class_11th_Medical	System of Particles & Rotational Motion:-Vector product of two vectors, Angular velocity & its relation with linear velocity,
Physics Daily Test 45 for_Class_11th_Medical	System of Particles & Rotational Motion:-Torque & angular momentum.
Physics Daily Test 46 for_Class_11th_Medical	System of Particles & Rotational Motion:-Equilibrium of rigid body, Moment of inertia, Theorems of perpendicular of parallel axis.
Physics Daily Test 47 for_Class_11th_Medical	System of Particles & Rotational Motion:-Kinematics of rotational motion about a fixed, Dynamics of rotational motion about a fixed axis, Angular momentum in case of rotation about a fixed axis.
Physics Daily Test 48 for_Class_11th_Medical	System of Particles & Rotational Motion:-Rolling motion.
Physics Daily Test 49 for_Class_11th_Medical	Gravitation:-Introduction, Kepler's laws, Universal law of Gravitation, Gravitational constant, Acceleration due to gravity of the earth, Acceleration due to gravity below & above the surface of the earth.
Physics Daily Test 50 for_Class_11th_Medical	Gravitation:-Gravitational potential energy,
Physics Daily Test 51 for_Class_11th_Medical	Gravitation:- Escape speed, Earth's satellite, Energy of an orbiting satellite, Geostationary & polar satellite, Weightlessness.
Physics Daily Test 52 for_Class_11th_Medical	Mechanical Properties of Solids:-Introduction, Plastic behavior of solids, Stress & strain, Hooke's law, Stress-strain curve
Physics Daily Test 53 for_Class_11th_Medical	Mechanical Properties of Solids:-Elastic Potential Energy, Elastic modulii, Applications of elastic behaviour of materials.
Physics Daily Test 54 for_Class_11th_Medical	Mechanical Properties of Fluids:-Introduction, Pressure, Pascal's Law
Physics Daily Test 55 for_Class_11th_Medical	Mechanical Properties of Fluids:-Archimedes Principle
Physics Daily Test 56 for_Class_11th_Medical	Mechanical Properties of Fluids:-Streamline flowBernoulli's principle,
Physics Daily Test 57 for_Class_11th_Medical	Mechanical Properties of Fluids:-Viscosity, Reynolds number
Physics Daily Test 58 for_Class_11th_Medical	Mechanical Properties of Fluids:-Surface tension.
Physics Daily Test 59 for_Class_11th_Medical	Thermal Properties of Matter:-Introduction, Temperature & Heat, measurement of temperature, Ideal gas equation & Absolute temperature, Thermal expansion.
Physics Daily Test 60 for_Class_11th_Medical	Thermal Properties of Matter:-Specific heat capacity, Calorimetry, Change of state

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DPT NAME	SYLLABUS
Physics Daily Test 61 for_Class_11th_Medical	Thermal Properties of Matter:-Heat transfer–Conduction, Convection.
Physics Daily Test 62 for_Class_11th_Medical	Thermal Properties of Matter:-Heat transfer – Radiation, Stefan's Law, Newton's law of cooling, Wien's law.
Physics Daily Test 63 for_Class_11th_Medical	Thermodynamics:-Introduction, Thermal equilibrium, Zeroth law of thermodynamics, Heat internal energy and work, First law of thermodynamics, Specific heat capacity.Thermodynamic state variables & equation of state,
Physics Daily Test 64 for_Class_11th_Medical	Thermodynamics:- Thermodynamic processes,
Physics Daily Test 65 for_Class_11th_Medical	Thermodynamics:- Heat engines, Refrigerators & heat pumps, Second law of thermodynamics, Reversible and irreversible process,Carnot's Engine.
Physics Daily Test 66 for_Class_11th_Medical	Kinetic Theory:- Introduction, Molecular nature of matter, Behaviour of gases, Kinetic theory of an ideal gas, Law of equipartition of energy, Specific heat capacity, Mean free path.
Physics Daily Test 67 for_Class_11th_Medical	Oscillations:- Introduction, Periodic & oscillatory motions, Simple harmonic motion and uniform circular motion,
Physics Daily Test 68 for_Class_11th_Medical	Oscillations:- Velocity and acceleration in simple harmonic motion, Force law for simple harmonic motion, Energy in simple harmonic motion.
Physics Daily Test 69 for_Class_11th_Medical	Oscillations:- Some systems executing SHM,Damped simple harmonic motion
Physics Daily Test 70 for_Class_11th_Medical	Oscillations:-Forced oscillations & resonance.
Physics Daily Test 71 for_Class_11th_Medical	Waves:-Introduction, Transverse & Longitudinal waves
Physics Daily Test 72 for_Class_11th_Medical	Waves:-Displacement relation in a progressive wave, The speed of a travelling wave.
Physics Daily Test 73 for_Class_11th_Medical	Waves:-The principle of super position of waves, Reflection of waves.
Zoology Daily Test 01 for_Class_11th_Medical	Structural Organisation in Animals–Animal Tissues:- Epithelial Tissue: General features, basement membrane, types of Epithelial tissues-Simple.
Zoology Daily Test 02 for_Class_11th_Medical	Structural Organisation in Animals–Animal Tissues:- Compound Epithelium, specialized epithelial tissues, glandular epithelium, Types of simple & compound gland
Zoology Daily Test 03 for_Class_11th_Medical	Structural Organisation in Animals–Animal Tissues:- Connective Tissue: Connective tissue proper, Loose connective tissue, Dense connective tissues-characters with examples. Supportive connective tissue: Cartilage, Types of cartilage-Hyaline, Elastic, white fibrocartilage & Calcified cartilage
Zoology Daily Test 04 for_Class_11th_Medical	Structural Organisation in Animals–Animal Tissues:- Supportive Connective Tissue: Bone, its structure & composition, Types of bones: Compact bone, Spongy bone, Differences between cartilage & bone: Dried bone & decalcified bone. Cartilage, Investing bone, Sesamoid bone and Visceral bone

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DAILY PRACTICE TEST SCHEDULE & SYLLABUS FOR CLASS-XI

DPT NAME	SYLLABUS
Zoology Daily Test 05 for_Class_11th_Medical	Structural Organisation in Animals–Animal Tissues:- Muscular Tissue: Types of Muscles: Striated and non-striated/Smooth muscles (Single unit & Multiunit smooth muscles; Cardiac muscle)
Zoology Daily Test 06 for_Class_11th_Medical	Structural Organisation in Animals–Animal Tissues:- Nervous Tissue: Structure of neuron and its parts, Different types of neuron; Myelinated & Nonmyelinated neurons, Neuroglia cells-Types of glial cells
Zoology Daily Test 07 for_Class_11th_Medical	Biomolecules:- Primary and secondary metabolites, Carbohydrates, Saccharides, Monosaccharides, Triose, Pentose, Hexose, Heptose, Derivatives of monosaccharides, Oligosaccharides, Functions of small carbohydrates
Zoology Daily Test 08 for_Class_11th_Medical	Biomolecules:- Polysaccharides-homopolysaccharides & heteropolysaccharides storage & structural polysaccharides
Zoology Daily Test 09 for_Class_11th_Medical	Biomolecules:- Aminoacids: Structure, types, Polar, Non polar, acidic, basic, neutral, alcoholic aromatic, heterocyclic, functions of amino acids. Peptide bond formation, Structure of protein-Primary, secondary, tertiary, quaternary, Properties of protein; Types of proteins and their functions
Zoology Daily Test 10 for_Class_11th_Medical	Biomolecules:- Lipids: Structure and classification of lipids, simple lipids, conjugated lipids, derived lipids, functions of lipids
Zoology Daily Test 11 for_Class_11th_Medical	Biomolecules:- Nitrogenous bases, nucleosides, nucleotides, higher nucleotides, types of nucleotides, functions of nucleotides, Nucleic acid-DNA, RNA structure, types of it and function, Metabolities-primary & secondary
Zoology Daily Test 12 for_Class_11th_Medical	Biomolecules:- Enzymes: Importance, activation energy, chemical nature, active site, Classes of enzymes: Oxidoreductase, Transferase, Hydrolase, Lyase, Isomerase, Ligase; Properties of enzymes, Working of enzymes-Lock & Key model, Induce fit theory
Zoology Daily Test 13 for_Class_11th_Medical	Biomolecules:- Enzymes: Factors affecting the enzyme activity: substrate concentration, Km value, Product concentration, Temperature, pH; Enzyme inhibition-competitive, Non competitive, Allosteric enzymes, Isoenzymes and proenzymes
Zoology Daily Test 14 for_Class_11th_Medical	Digestion & Absorption:- Structure of alimentary Canal: Tongue, Taste Papillae, Structure of tooth, Dental formula, Waldeyer's ring, Oesophagus, Stomach, Small intestine, Large intestine, Anus, Histology of Alimentary Canal-Serosa, Muscular coat, Submucosa, Mucosa
Zoology Daily Test 15 for_Class_11th_Medical	Digestion & Absorption:- Digestive glands: Salivary glands-Parotid, Submaxillary, Sublingual salivary glands, Gastric glands, Liver, Internal structure, Gall bladder, Bile duct functions of liver

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DAILY PRACTICE TEST SCHEDULE & SYLLABUS FOR CLASS-XI

DPT NAME	SYLLABUS
Zoology Daily Test 16 for_Class_11th_Medical	Digestion & Absorption:- Pancreas: External structure, internal structure, Intestinal glands, Digestion of carbohydrates in the alimentary canal.
Zoology Daily Test 17 for_Class_11th_Medical	Digestion & Absorption:- Digestion of proteins: Action of gastric juice, pancreatic juice, intestinal juice, Digestion of lipids-emulsification & digestion, Digestion of nucleic acids
Zoology Daily Test 18 for_Class_11th_Medical	Digestion & Absorption:- Absorption of nutrients: Carbohydrates, amino acids, fatty acids & glycerol, water, electrolytes, vitamins, Assimilation of carbohydrates, Amino acids, fats, Egestion, Disorders of digestive system, Jaundice, Vomiting, Diarrhoea, Constipation, Indigestion
Zoology Daily Test 19 for_Class_11th_Medical	Breathing & Exchange of Gases:- Respiratory passage, structure of larynx, sound production, lungs, pleurae, external structure of lungs, Internal structure, alveoli.
Zoology Daily Test 20 for_Class_11th_Medical	Breathing & Exchange of Gases:- Mechanism of breathing-Inspiration, expiration, thoracic & abdominal breathing, Respiratory/Pulmonary volumes/Respiratory capacities
Zoology Daily Test 21 for_Class_11th_Medical	Breathing & Exchange of Gases:- Exchange of gases between alveoli & blood; exchange of gases between blood & tissue cells.
Zoology Daily Test 22 for_Class_11th_Medical	Breathing & Exchange of Gases:- Transport of oxygen, Bohr's effect; Transport of carbon dioxide, Chloride shift (Hamburger's phenomenon), Haldane effect
Zoology Daily Test 23 for_Class_11th_Medical	Breathing & Exchange of Gases:- Regulation of respiration: Neural regulation, chemical regulation, Respiratory disorders, Bronchitis, Asthma, Emphysema, Occupational respiratory disorder
Zoology Daily Test 24 for_Class_11th_Medical	Body Fluids & Circulation:- Fluid connective tissue–Blood & composition of blood-blood cells & plasma, blood coagulation, clotting factors, lymph
Zoology Daily Test 25 for_Class_11th_Medical	Body Fluids & Circulation:- Circulatory pathways, Human circulatory system-external structure of heart, Internal structure-Atria, Ventricle, Valves, Histology of heart wall, working of heart
Zoology Daily Test 26 for_Class_11th_Medical	Body Fluids & Circulation:- Cardiac cycle, Heart sounds, conducting system of heart, ECG-Normal ECG & changes as indication of heart diseases
Zoology Daily Test 27 for_Class_11th_Medical	Body Fluids & Circulation:- Double circulation, heart beat, regulation of heart beat- Neural regulation, hormonal regulation
Zoology Daily Test 28 for_Class_11th_Medical	Body Fluids & Circulation:- Blood Vessels-Aorta, Arteries, Arterioles, Capillaries, Venules, Veins, Vena Cava, Lymphatic system, Disorders of circulatory system-Hypertension, Coronary artery diseases, Angina, Heart failure

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DPT NAME	SYLLABUS
Zoology Daily Test 29 for_Class_11th_Medical	Excretory Products & their Elimination:- Mode of excretion- Ammonotelism, Ureotelism, uricotelism (brief account), Different types of excretory structures in various animals, Human excretory system-structure of kidney, ureter, urinary bladder
Zoology Daily Test 30 for_Class_11th_Medical	Excretory Products & their Elimination:- Nephron: Structure including glomerulus, Bowman's capsule, PCT, Loop of Henle & DCT; and its types i.e., cortical and juxtamedullary nephrons.
Zoology Daily Test 31 for_Class_11th_Medical	Excretory Products & their Elimination:- Urine formation : Glomerular filtration- Structure of Malpighian body, Ultra filtration mechanism, glomerular filtration rate, filteration fraction, autoregulation of glomerular filtration, Tubular reabsorption & secretion, countercurrent mechanism.
Zoology Daily Test 32 for_Class_11th_Medical	Excretory Products & their Elimination:- Regulation of kidney function: Osmoregulation, control by juxta glomerular apparatus, Renin-angiotensin aldosterone system (RAAS) Atrial Natriuretic factor, ADH and Diabetes insipidus.
Zoology Daily Test 33 for_Class_11th_Medical	Excretory Products & their Elimination:- Urine: Its composition, micturition mechanism, role of other organs like, kidney, lungs, liver and skin in excretion. Disorders-uremia, renal failure, renal calculi, nephritis. Dialysis and artificial kidneys & kidney transplantation.
Zoology Daily Test 34 for_Class_11th_Medical	Locomotion & Movement:- Types of movements: Ciliary, protoplasmic streaming, flagellar, muscular; Types of muscles and their structures. Muscle contraction-structure of contractile proteins-actin, myosin, troponin and tropomyosin. Mechanism of muscle contraction-Sliding filament theory, role of calcium and regulatory proteins, power stroke, role of ATP, various stages in cross bridge formation & break down.
Zoology Daily Test 35 for_Class_11th_Medical	Locomotion & Movement:- Properties of muscle contraction: All or none principle, single muscle twitch, energy source of muscle contraction, Cori's cycle, Rigor mortis, red and white muscle fibres, Isometric and isotonic contraction. Treppe or staircase phenomenon, disorders of muscles-Myasthenia gravis, muscular dystrophy, tetany
Zoology Daily Test 36 for_Class_11th_Medical	Locomotion & Movement:- Axial skeleton: Skull-cranial bones, facial bones, Hyoid, Ear ossicles malleus, incus, stapes, Vertebral column-cervical, thoracic, lumbar, sacral, coccyx vertebrae, curves of the vertebral column. Ribs-vertebrosternal/True ribs, vertebrachondral/False ribs, Vertebral/Floating ribs, rib cage, sternum
Zoology Daily Test 37 for_Class_11th_Medical	Locomotion & Movement:- Appendicular skeleton: Pectoral girdle, bones of upper limb (Humerus, radius, ulna, carpals, metacarpals and phalanges), pelvic girdle, bones of lower limb (femur, patella, tibia, fibula, tarsals, metatarsals, phalanges). Joints-fibrous, cartilaginous and synovial (Ball and socket, hinge, pivot, gliding and saddle joint), Bone & Joint disorders-Arthritis, Osteoporosis, Gout etc.

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DPT NAME	SYLLABUS
Zoology Daily Test 38 for_Class_11th_Medical	Neural Control & Coordination:- Human neural system: Central and peripheral neural system, neuron as structural and functional unit of neural system, different types of neurons and their location. Nerve impulse, generation and its transmission-Resting membrane potential, spike potential, action potential, depolarization, repolarization, hyperpolarization.
Zoology Daily Test 39 for_Class_11th_Medical	Neural Control & Coordination:- Synapses: Electrical and Chemical, synaptic transmission, mechanism of transmission of nerve impulse through electrical and chemical synapse. Neurotransmitters; excitatory and inhibitory.
Zoology Daily Test 40 for_Class_11th_Medical	Neural Control & Coordination:- Structure of Brain: Forebrain, cerebrum, thalamus, hypothalamus, limbic system and their functions, mid brain (corpora quadrigemina and crura cerebri), hind brain (cerebellum, pons, medulla) ventricles of brain and cerebrospinal fluid.
Zoology Daily Test 41 for_Class_11th_Medical	Neural Control & Coordination:- Spinal cord & Peripheral nervous system: Cranial nerves (name, origin, distribution, nature and their functions), Spinal nerves-branches, (posterior, anterior, meningeal and visceral) plexuses (cervical, brachial, lumbar, sacral and coccygeal). Autonomic nervous System-sympathetic and parasympathetic nervous system and their functions.
Zoology Daily Test 42 for_Class_11th_Medical	Neural Control & Coordination:- Reflex action: Reflex arc, characteristics of reflexes, types of reflexes-unconditioned, conditioned, monosynaptic and polysynaptic reflex and their examples. Detail of knee jerk reflex, importance of reflex action.
Zoology Daily Test 43 for_Class_11th_Medical	Neural Control & Coordination:- Sensory perception and processing: Human eye, coats of eye, part of eye, content of eye ball (lens, aqueous humour, vitreous humour), extra occular eye muscle and their nerve supply. Mechanism of vision, accommodation, protective structures of eye, eyebrows, eyelids.
Zoology Daily Test 44 for_Class_11th_Medical	Neural Control & Coordination:- Defects of eyes: Myopia, hypermetropia, presbyopia, astigmatism, cataract and glaucoma. Nose: Olfactory receptors, its structure and mechanism/working. Tongue: Different types of papillae & taste buds, its structure and working. Different types of receptors in skin-Tangoreceptor, algesireceptor, thermoreceptor.
Zoology Daily Test 45 for_Class_11th_Medical	Neural Control & Coordination:- Elementry Structure, and functions of sense organs - Ear
Zoology Daily Test 46 for_Class_11th_Medical	Chemical Coordination & Integration:- Endocrine Glands and hormones, hypothalamus, pitutary and thyroid gland.

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DPT NAME	SYLLABUS
Zoology Daily Test 47 for_Class_11th_Medical	Chemical Coordination & Integration:- Parathyroid glands: Structure, location, hormone and mechanism of regulation of calcium homeostasis, disorders. Adrenal gland: Structure, location, hormones and their functions, disorders-Addison's disease, Cushing syndrome, aldosteronism, adrenal virilism. Pineal and its hormone, Thymus and its hormone. Pancreas-structure, location, hormone with their principal actions and disorders-hypoglycemia, diabetes mellitus.
Zoology Daily Test 48 for_Class_11th_Medical	Gonads: (Ovary and testis-structure, location, hormones, principal action and disorders: hypogonadism, precocious puberty eunuchoidism, gynalcomastia) hormones of heart, kidney and gastrointestinal tract, mechanism of hormone action (protein and steroid hormone) role of hormones as messengers and regulations, amplification of signals, synergistic and antagonistic effects, hormone receptor complex
Zoology Daily Test 49 for_Class_11th_Medical	Animal Kingdom–General Account & Non chordates :- Basis of classification, Levels of organisation, Symmetry, Body-plan, Protostomous, Deuterostomous
Zoology Daily Test 50 for_Class_11th_Medical	Animal Kingdom–General Account & Non chordates :- Coelom-its types, Open/closed vascular system, Segmentation, Notochord, Broad classification of Kingdom Animalia based on common fundamental features
Zoology Daily Test 51 for_Class_11th_Medical	Animal Kingdom–General Account & Non chordates :- Porifera: General characters, Body wall, Types of cells, Skeleton: Spicules and spongin fibres, Canal system-(General outline), Reproduction: Larva stages with examples
Zoology Daily Test 52 for_Class_11th_Medical	Animal Kingdom–General Account & Non chordates :- Cnidaria: General characters, Body wall, Nematoblasts-Structures, Hydra-General characters, Polymorphism, Types of Zooids, Polyps, Medusa, Metagenesis, Corals.
Zoology Daily Test 53 for_Class_11th_Medical	Animal Kingdom–General Account & Non chordates :- Ctenophora; General characters, Comb plates, examples, Platyhelminthes: General characters, Symmetry, Parenchyma, Flame cells, Ladder like nervous part, Reproduction
Zoology Daily Test 54 for_Class_11th_Medical	Animal Kingdom–General Account & Non chordates :- Lifecycle of Fasciola hepatica (outline), Life cycle of Taenia solium with general features, Pseudosegmentation, Strobilation, Apolysis, Taenia saginata
Zoology Daily Test 55 for_Class_11th_Medical	Animal Kingdom–General Account & Non chordates :- Aschelminthes / Nematode: General characters, Renette cells, Reproduction with examples, Life cycle of the Ascaris (outline), other nematodes-Ancylostoma, Wuchereria, Enterobius, etc.

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DPT NAME	SYLLABUS
Zoology Daily Test 56 for_Class_11th_Medical	Animal Kingdom–General Account & Non chordates :- Annelida: General characters, Reproduction, Larval form, Nereis–Heteronereis, Pheretima, Hirudinaria, Pontobdella, Botryoidal tissue in leech
Zoology Daily Test 57 for_Class_11th_Medical	Animal Kingdom–General Account & Non chordates :- Arthropoda: General characters of arthropods, Chitinous exoskeleton, Types of respiration, excretory structures, reproduction, Types of mouthparts in insects
Zoology Daily Test 58 for_Class_11th_Medical	Animal Kingdom–General Account & Non chordates :- Types of metamorphosis in Insects, Economic importance-Mosquito, Housefly, silkmoth, Termites, Lac insect, Mollusca: General characters with examples, Larval form, Pearl formation.
Zoology Daily Test 59 for_Class_11th_Medical	Animal Kingdom–General Account & Non chordates :- Echinodermata: General characters, Water ambulacral system. Hemichordata: General characters, stomochord, examples., Chordates: General characters, 3 subphyla-Urochordata, Cephalochordata, Vertebrata. Urochordata-General characters with examples. Cephalochordates-General characters with examples.
Zoology Daily Test 60 for_Class_11th_Medical	Animal Kingdom-Chordates:- Vertebrata: Agnatha & Gnathostomata: Cyclostomata-General characters with examples Petromyzon, Myxine
Zoology Daily Test 61 for_Class_11th_Medical	Animal Kingdom-Chordates:- Pisces: General characters, Classes-Placodermi, Chondrichthyes, Osteichthyes: Differences between cartilaginous & bony fishes, Scoliodon, Chimaera, Exocoetus, Labeo, Lateral line system, Neuromast organs, Types of scales
Zoology Daily Test 62 for_Class_11th_Medical	Animal Kingdom-Chordates:- Amphibia: General characters, Parental care and examples.
Zoology Daily Test 63 for_Class_11th_Medical	Animal Kingdom-Chordates:- Reptilia: True land vertebrates, General characters, Rhynocephalia
Zoology Daily Test 64 for_Class_11th_Medical	Animal Kingdom-Chordates:- Squamata, Crocodilia, Chelonia, Poisonous & non poisonous, Snakes
Zoology Daily Test 65 for_Class_11th_Medical	Animal Kingdom-Chordates:- Aves: General characters
Zoology Daily Test 66 for_Class_11th_Medical	Animal Kingdom-Chordates:- Mammalia: General characters, Subclasses-Prototheria, Metatheria, Eutheria
Zoology Daily Test 67 for_Class_11th_Medical	Zoology : Structure Organisation in Animals – Animal Morphology: Earthworm
Zoology Daily Test 68 for_Class_11th_Medical	Structural Organisation in Animals– Animal Morphology:- Earthworm : Circulatory System, Excretory System, Nervous System, Reproductive System, Economic Importance.
Zoology Daily Test 69 for_Class_11th_Medical	Structural Organisation in Animals– Animal Morphology:- Salient features of the Periplaneta, Habitat, External features, exoskeleton, Head-mouthparts, thorax-thoracic appendages, Abdomen

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DPT NAME	SYLLABUS
Zoology Daily Test 70 for_Class_11th_Medical	Structural Organisation in Animals– Animal Morphology:- Digestive system of Cockroach-peritrophic membrane, Respiratory system and mechanism respiration, Circulating system: Heart, blood sinuses and circulation
Zoology Daily Test 71 for_Class_11th_Medical	Structural Organisation in Animals– Animal Morphology:- Malpighian tubules, Nerve cord, Sense organs of cockroach, Reproductive system of Cockroach-male & female system, fertilization, Development, Moulting
Zoology Daily Test 72 for_Class_11th_Medical	Structural Organisation in Animals– Animal Morphology:- Frog : Morphology, Anatomy, Digestive System, Respiratory System, Circulatory System, Excretory System, Nervous System, Reproductive System, Economic Importance.

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AAKASH TEST PLANNER :
FORTNIGHTLY & TERM EXAM FOR CLASS-XI (MEDICAL)

Two Year Medical : Planner for Fortnightly Test/Term Exam - 2020-2021 [Phase-01]

Sr. No.	Test Name	Test Date	Test Syllabus
1	FT-01	8-May-20	**Physics : Physical World, Units & Measurements:** Introduction, International system of units, Measurement of length, Mass, Time, Accuracy, Precision of instruments. **Chemistry : Some Basic Concepts of Chemistry:** Importance of chemistry, Nature of matter, Properties of matter and their measurement : Mass and weight, volume, density, temperature, Uncertainty in measurement, Scientific notation, Addition and subtraction, Multiplication and division, Significant figures, Dimensional analysis., Laws of chemical combination : Law of conservation of mass, Law of definite proportions, Law of multiple proportions, Gay lussac's law of gaseous volumes, Avogadro law, Dalton's atomic theory., Atomic and molecular masses : Atomic mass, Average atomic mass, Molecular mass, Formula mass. **Botany : Cell: The Unit of Life:** Introduction, What is a cell?, Cell theory, An overview of cell, Prokaryotic cell-structure, Gram staining, Eukaryotic cell structure, Difference between prokaryotic and eukaryotic cell, difference between plant cell and animal cell, plasma membrane, Cell wall, endomembrane system– Endoplasmic reticulum, Golgi body, Lysosome, Vacuole; Mitochondria, Plastid. **Zoology : Structural organisation in Animals–Animal Tissues-I: Epithelial Tissue:** General features, basement membrane, Types of epithelial tissues-Simple., Compound epithelium, specialized epithelial tissues, glandular epithelium, Types of simple & compound glands, **Connective Tissue:** Connective tissue proper, Loose connective tissue, Dense connective tissues-characters with examples. Supportive connective tissue: Cartilage, Types of cartilage-Hyaline, Elastic, white fibrocartilage & Calcified **cartilage,** Supportive Connective Tissue: **Bone,** its structure & composition, Types of bones: Compact bone, Spongy bone, Differences between cartilage & bone: Dried bone & decalcified bone. Cartilage, Investing bone, Sesamoid bone and Visceral bone
2	FT-02	22-May-20	**Physics : Units & Measurements:** Errors in measurements, Significant figures, Dimensions of physical quantities, Dimensional formulae & dimensional equations, Dimensional analysis and its applications. **Chemistry : Some Basic Concepts of Chemistry:** Mole concept, Molar mass, equivalent mass, Percentage composition, Empirical formula, Stoichiometry and Stoichiometric calculations., Calculations regarding limiting reagents. **Botany : Cell: The Unit of Life (Contd.):** Ribosome, Cytoskeleton, Centrosome and centrioles, Cilia and flagella, Nucleus, Chromosomes, Microbodies, **Cell Cycle & Cell Division:** Introduction, Cell cycle–phases of cell cycle, Mitosis–definition, Karyokinesis, cytokinesis, significance, Meiosis–definition **Zoology : Structural organisation in Animals–Animal Tissues-II: Muscular Tissue:** Types of Muscles: Striated and non-striated/Smooth muscles (Single unit & Multiunit smooth muscles; Cardiac muscle), **Nervous Tissue:** Structure of neuron and its parts, Different types of neuron; Myelinated & Nonmyelinated neurons, Neuroglia cells-Types of glial cells, **Biomolecules-I:** Primary and secondary metabolites, Carbohydrates, Monosaccharides, Triose, Pentose, Hexose, Heptose, Derivatives of monosaccharides, Oligosaccharides, Functions of small carbohydrates, Polysaccharides-homopolysaccharides & heteropolysaccharides, storage & structural polysaccharides

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AAKASH TEST PLANNER :
FORTNIGHTLY & TERM EXAM FOR CLASS-XI (MEDICAL)

Two Year Medical : Planner for Fortnightly Test/Term Exam - 2020-2021 [Phase-01]

Sr. No.	Test Name	Test Date	Test Syllabus
3	FT-03	5-Jun-20	**Physics : Motion in a Straight Line:** Introduction, Position, Path length and displacement, Average velocity & average speed., Differential calculus, Applications of differential calculus, Instantaneous velocity & speed, Acceleration **Chemistry : Some Basic Concepts of Chemistry:** Reactions in solutions : Mass percentage or weight percentage, Mole-fraction, Molarity, Molality, Normality, **Structure of Atom:** Sub-atomic particles : Discovery of electron, Charge to mass ratio of electron, Charge on electron, Discovery of proton and neutron. Thomson model of atom, Rutherford's nuclear model of atom, Atomic and Mass number, Isobars and isotopes., Particle nature of electromagnetic radiation : Plank's quantum theory, Photoelectric effect, Dual behaviour of electromagnetic radiation. **Botany : Cell Cycle & Cell Division (Contd.):** Meiosis-I, Meiosis-II, significance of meiosis, **The living world:** Introduction, What is living?, Characteristics of living beings, Diversity in the living world, Nomenclature, Need for classification, Classification -taxonomy, Systematics, Taxonomic categories. **Zoology : Biomolecules-II:** Aminoacids: Structure, types, Polar, Non polar, acidic, basic, neutral, alcoholic, aromatic, heterocyclic, functions of amino acids. Peptide bond formation, Structure of protein-Primary, secondary, tertiary, quaternary, Properties of proteins. Types of proteins and their functions, Lipids: Structure and classification of lipids, simple lipids, conjugated lipids, derived lipids, functions of lipids, Nitrogenous bases, nucleosides, nucleotides, higher nucleotides, types of nucleotides, functions of nucleotides, Nucleic acid-DNA, RNA structure, types of it and function, Metabolites-Primary & secondary, Enzymes: Importance, activation energy, chemical nature, active site, Classes of enzymes: Oxidoreductase, Transferase, Hydrolase, Lyase, Isomerase, Ligase; Properties of enzymes, Working of enzymes-Lock & Key model, Induce fit theory, Enzymes: Factors affecting the enzyme activity: substrate concentration, K_m value, Product concentration, Temperature, pH; Enzyme inhibition-competitive, Non competitive, Allosteric enzymes, Isoenzymes and proenzymes
4	TE-01	12-Jun-20	**Physics : Physical World, Units & Measurements, Motion in a Straight Line:** Introduction, Position, Path length and displacement, Average velocity & average speed., Differential calculus, Applications of differential calculus, Instantaneous velocity & speed, Acceleration **Chemistry : Some Basic Concepts of Chemistry, Structure of Atom:** Sub-atomic particles : Discovery of electron, Charge to mass ratio of electron, Charge on electron, Discovery of proton and neutron. Thomson model of atom, Rutherford's nuclear model of atom, Atomic and Mass number, Isobars and isotopes., Particle nature of electromagnetic radiation : Plank's quantum theory, Photoelectric effect, Dual behaviour of electromagnetic radiation. **Botany : Cell: The Unit of Life, Cell Cycle & Cell Division, The living world (**Upto Taxonomic categories) **Zoology : Structural organisation in Animals–Animal Tissues, Biomolecules**

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Sr. No.	Test Name	Test Date	Test Syllabus
5	FT-04	26-Jun-20	**Physics : Motion in a Straight Line:** Integral calculus, Applications of Integral calculus, Graphs (slope, area etc.), Kinematic equations for uniformly accelerated motion., Motion under gravity, Relative velocity in one dimension. **Chemistry : Structure of Atom:** Emission and absorption spectra, Line spectrum of hydrogen, Bohr's model for hydrogen atom, Explanation of Bohr's model., Dual behaviour of matter, Heisenberg's uncertainty principle, Significance of uncertainty principle, Reason for the failure of the Bohr model., Quantum mechanics, Hydrogen atom and the Schrodinger equation, Orbitals and Quantum numbers, Shapes of atomic orbitals, Energies of atomic orbitals, Filling of orbitals in atom : Aufbau principle, Pauli's exclusion principle, Hunds rule of maximum multiplicity, Electronic configuration of atoms, Causes of Stability of completely filled and half filled sub-shells **Botany : The living world(Contd.):** Biological concept of species, Taxonomical aids- Herbarium, , Botanical gardens, museum, zoological parks, Key, Flora, Manual, Monographs, Catalogues, **Biological Classification:** Introduction, Kingdom system of classification- two kingdom, three kingdom, four kingdom, five kingdom, Six kingdom, Domains of life, Kingdom Monera- Characters of monera, Shape of bacteria, Bacterial Life process - Respiration, Nutrition, Reproduction- Asexual, Sexual recombination **Zoology : Digestion & Absorption**
6	FT-05	10-Jul-20	**Physics : Motion in a Plane:** Introduction, Scalars & Vectors, Multiplication of vectors by real numbers, Addition & subtraction of vectors–graphical method., Resolution of vectors, Vector addition–analytical method., Motion in a plane, Motion in a plane with constant acceleration. **Chemistry : Classification of Elements and Periodicity in Properties, Chemical Bonding and Molecular Structure:** Kossel-Lewis approach to chemical bonding, Octet rule, Covalent bond, Lewis representation of simple molecules, Formal charge, Limitations of octet rule : Incomplete octet of the central atom, odd-electron molecule, The expanded octet., Ionic or electrovalent bond, Lattice enthalpy, bond parameters : Bond length, Bond angles, Bond enthalpy, Bond-order, Resonance structures **Botany : Biological Classification(Contd.):** Economic importance of bacteria, Archaebacteria-methanogens, halophiles, thermoacidophiles, Eubacteria – Cyanobacteria, *Mycoplasma,* Actinomycetes, Protista-General characters, Chrysophytes, Dinoflagellates, Euglenoids, Slime moulds, Protozoans-major groups with some salient features, Fungi-general characters. **Zoology : Breathing & Exchange of Gases-I:** Respiratory passage, structure of Larynx, sound production, lungs, pleurae, external structure of lungs, Internal structure, alveoli., Mechanism of breathing-Inspiration, expiration, thoracic & abdominal breathing, Respiratory/Pulmonary volumes/Respiratory capacities, Exchange of gases between alveoli & blood; exchange of gases between blood & tissue cells., Transport of oxygen, Bohr's effect; Transport of carbon dioxide, Chloride shift (Hamburger's phenomenon), Haldane effect

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Sr. No.	Test Name	Test Date	Test Syllabus
7	FT-06	24-Jul-20	**Physics : Motion in a Plane(Contd.):** Relative velocity in two dimensions., Projectile motion – Equation of path of a projectile. Time of flight, Maximum height, Horizontal range, Uniform circular motion. **Chemistry : Chemical Bonding and Molecular Structure:** Polarity of bonds, Dipole moment and molecular structures, Percentage ionic character, The valence shell electron pair repulsion theory., Valence bond theory : Orbital overlap concept, Directional properties of bonds, Overlapping of atomic orbitals, Types of overlapping and nature of covalent bonds. Strength of σ & π-bonds., Hybridisation : Features and conditions, Types of hybridisation : sp, sp^2, sp^3, dsp^2, sp^3d, sp^3d^2, sp^3d^3, Molecular orbital theory : Features, Linear combination of atomic orbitals, Conditions for the combination of atomic orbitals, Types of molecular orbitals., Energy level diagram for molecular orbitals, Electronic configuration and molecular behaviour, Bonding in some homonuclear diatomic molecules, Hydrogen bonding., **Botany : Biological Classification(Contd.):** Reproduction in fungi, Characters of different classes of fungi - Phycomycetes, Ascomycetes, Basidiomycetes, Salient features of *Agaricus* & *Puccinia* , Deuteromycetes, Virus–introduction, discovery, structural components, Structure of some viruses (TMV, bacteriophages), **Zoology : Breathing & Exchange of Gases-II:** Regulation of respiration: Neural regulation, chemical regulation, Respiratory disorders, Bronchitis, Asthma, Emphysema, Occupational respiratory disorder, **Body Fluids & Circulation-I:** Fluid connective tissue–Blood & composition of blood-blood cells & plasma, blood coagulation, clotting factors, lymph, Circulatory pathways, Human circulatory system-external structure of heart, Internal structure-Atria, Ventricle, Valves, Histology of heart wall, working of heart, Cardiac cycle, Heart sounds, conducting system of heart, ECG-Normal ECG & changes as indication of heart diseases

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Sr. No.	Test Name	Test Date	Test Syllabus
8	TE-02	31-Jul-20	**Physics : Physical World, Units & Measurements, Motion in a Straight Line:** Introduction, Position, Path length and displacement, Average velocity & average speed., Differential calculus, Applications of differential calculus, Instantaneous velocity & speed, Acceleration *[For 9 Questions out of 45]* **Motion in a Straight Line:** Integral calculus, Applications of Integral calculus. Graphs (slope, area etc.), Kinematic equations for uniformly accelerated motion., Motion under gravity, Relative velocity in one dimension, **Motion in a Plane** *[For 36 Questions out of 45]* **Chemistry : Some Basic Concepts of Chemistry, Structure of Atom: Sub-atomic particles :** Discovery of electron, Charge to mass ratio of electron, Charge on electron, Discovery of proton and neutron. Thomson model of atom, Rutherford's nuclear model of atom, Atomic and Mass number, Isobars and isotopes., Particle nature of electromagnetic radiation : Plank's quantum theory, Photoelectric effect, Dual behaviour of electromagnetic radiation. *[For 9 Questions out of 45]* **Structure of Atom:** Emission and absorption spectra, Line spectrum of hydrogen, Bohr's model for hydrogen atom, Explanation of Bohr's model., Dual behaviour of matter, Heisenberg's uncertainty principle, Significance of uncertainty principle, Reason for the failure of the Bohr model., Quantum mechanics, Hydrogen atom and the Schrodinger equation, Orbitals and Quantum numbers, Shapes of atomic orbitals, Energies of atomic orbitals, Filling of orbitals in atom : Aufbau principle, Pauli's exclusion principle, Hunds rule of maximum multiplicity, Electronic configuration of atoms, Causes of stability of completely filled and half filled sub-shells., **Classification of Elements and Periodicity in Properties, Chemical Bonding and Molecular Structure.** *[For 36 Questions out of 45]* **Botany : Cell: The Unit of Life, Cell Cycle & Cell Division, The living world** (Upto Taxonomic categories) *[For 9 Questions out of 45]* **The living world:** Biological concept of species onwards, **Biological Classification:** Upto Structure of some viruses (TMV, bacteriophages) *[For 36 Questions out of 45]* **Zoology : Structural organisation in Animals–Animal Tissues, Biomolecules** *[For 9 Questions out of 45]* **Digestion & Absorption, Breathing & Exchange of Gases, Body Fluids & Circulation-I:** Fluid connective tissue–Blood & composition of blood-blood cells & plasma, blood coagulation, clotting factors, lymph, Circulatory pathways, Human circulatory system-external structure of heart, Internal structure-Atria, Ventricle, Valves, Histology of heart wall, working of heart, Cardiac cycle, Heart sounds, conducting system of heart, ECG-Normal ECG & changes as indication of heart diseases. *[For 36 Questions out of 45]*

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Sr. No.	Test Name	Test Date	Test Syllabus
9	FT-07	14-Aug-20	**Physics : Laws of Motion:** Introduction, Aristotle's fallacy, The law of inertia, Newton's first law of motion, Momentum, Conservation of momentum, Newton's 2nd law of motion, Newton's third laws of motion, Equilibrium of a particle **Chemistry : States of Matter** **Botany : Biological Classification(Contd.):** Reproduction in virus, Diseases, Sub-viral agents – Viroids, Virusoids, Prions; Lichens, Mycorrhiza, **Morphology of Flowering Plants:** Introduction, Root–types, function, regions, modifications, Introduction of stem, bud, function of stem, modification of stem, Leaf–introduction, parts, venation, types (simple and compound leaf), Leaf-Phyllotaxy, Modifications, Inflorescence – racemose and cymose, Flowers-terminology, symmetry. **Zoology : Body Fluids & Circulation-II:** Double circulation, heart beat, regulation of heart beat- Neural regulation, hormonal regulation, Blood Vessels-Aorta, Arteries, Arterioles, Capillaries, Venules, Veins, Vena Cava, Lymphatic system, Disorders of circulatory system-Hypertension, Coronary artery diseases, Angina, Heart failure, **Excretory Products & their Elimination**
10	FT-08	28-Aug-20	**Physics : Laws of Motion(Contd.):** Common forces in mechanics, Friction, Circular motion., Solving problems in mechanics. **Chemistry : Thermodynamics** **Botany : Morphology of Flowering Plants (Contd.):** Position of floral parts on thalamus, parts of flower (calyx and corolla), aestivation, Androecium- adhesion, cohesion; Gynoecium, Placentation, Fruits–parts, types, edible parts, Structure of dicotyledonous and monocotyledonous seed, Families– brassicaceae, fabaceae, solanaceae, liliaceae. **Zoology : Locomotion & Movement-I:** Types of movements: Ciliary, protoplasmic streaming, flagellar, muscular; Types of muscles and their structures. Muscle contraction-structure of contractile proteins-actin, myosin, troponin and tropomyosin. Mechanism of muscle contraction-Sliding filament theory, role of calcium and regulatory proteins, power stroke, role of ATP, various stages in cross bridge formation & break down., Properties of muscle contraction: All or none principle, single muscle twitch, energy source of muscle contraction, Cori's cycle, Rigor mortis, red and white muscle fibres, Isometric and isotonic contraction. Treppe or staircase phenomenon, disorders of muscles-Myasthenia gravis, muscular dystrophy, tetany, Axial skeleton: Skull-cranial bones, facial bones, Hyoid, Ear ossicles malleus, incus, stapes, Vertebral column-cervical, thoracic, lumbar, sacral, coccyx vertebrae, curves of the vertebral column. Ribs-vertebrosternal/True ribs, vertebrachondral/False ribs, Vertebral/Floating ribs, rib cage, sternum.

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Sr. No.	Test Name	Test Date	Test Syllabus
11	FT-09	16-Oct-20	**Physics : Work, Energy & Power** **Chemistry : Equilibrium:** Chemical equilibrium : Liquid-vapour, Solid-liquid and solid-vapour equilibria, General characteristics of equilibria involving physical and chemical process, Law of chemical equilibrium and equilibrium constant, Homogeneous and heterogeneous equilibria, Application of equilibrium constants. Predicting the extent and the direction of reactions. Calculating equilibrium concentrations., Relationship between equilibrium constant, Reaction quotient and Gibb's energy, Factors affecting equilibria: Change in concentration, pressure, temperature and effect of catalyst and effect of addition of inert gas., Acids bases : Arrhenius, Bronsted-Lowry and Lewis concepts, Ionisation of acids and bases, Ionisation constant of water and its ionic product., **Botany : Anatomy of Flowering Plants** **Zoology : Locomotion & Movement-II:** Appendicular skeleton: Pectoral girdle, bones of upper limb (Humerus, radius, ulna, carpals, metacarpals and phalanges), pelvic girdle, bones of lower limb (femur, patella, tibia, fibula, tarsals, metatarsals, phalanges). Joints-fibrous, cartilaginous and synovial (Ball and socket, hinge, pivot, gliding and saddle joint), Bone & Joint disorders-Arthritis, Osteoporosis, Gout etc., **Neural Control & Coordination-I:** Human neural system: Central and peripheral neural system, neuron as structural and functional unit of neural system, different types of neurons and their location, Nerve impulse, generation and its transmission-Resting membrane potential, spike potential, action potential, depolarization, repolarisation, hyperpolarisation, Synapses: Electrical and Chemical, synaptic transmission, mechanism of transmission of nerve impulse through electrical and chemical synapse. Neurotransmitters: excitatory and inhibitory, Structure of Brain: Forebrain, cerebrum, thalamus, hypothalamus, limbic system and their functions, mid brain (corpora quadrigemina and crura cerebri), hind brain (cerebellum, pons, medulla) ventricles of brain and cerebrospinal fluid.
12	FT-10	20-Nov-20	**Physics : System of Particles & Rotational Motion** **Chemistry : Equilibrium:** The pH scale, ionisation constants of weak acids and weak bases, Relation between K_a and K_b. Di and Polybasic acid and bases, Factors affecting acid and bases - Strength, Common ion effect in the ionisation of acids and bases, Buffer solution, Salt hydrolysis and solubility product, **Redox Reactions** **Botany : Plant Kingdom, Transport in Plants:** Introduction, Means of transport, Plant water relations–water potential, osmosis, DPD, TP, Plasmolysis, imbibition, Long distance transport of water – absorption of water (apoplast pathway, symplast pathway). **Zoology : Neural Control & Coordination-II: Spinal cord & Peripheral nervous system:** Cranial nerves (name, origin, distribution, nature and their functions), Spinal nerves-their branches and plexuses in detail. **Autonomic nervous system-**sympathetic and parasympathetic nervous system and their functions., **Reflex action:** Reflex arc, characteristics, types of reflexes and their examples. Detail of knee jerk reflex, importance of reflex action., **Sensory perception and processing: Human eye:** Detailed structure & function**, Nose:** Olfactory receptors, its structure and mechanism/working. **Tongue:** Different types of papillae & taste buds, its structure and working. **Different types of receptors in skin-**Tangoreceptor, algesireceptor, thermoreceptor, **Ear:** Detailed structure & function, **Chemical Coordination & Integration, Animal Kingdom-General Account & Non chordates-I:** Basis of classification, Levels of organisation, Symmetry, Body-plan, Protostomous, Deuterostomous, Coelom-its types, Open/closed vascular system, Segmentation, Notochord, Broad classification of Kingdom Animalia based on common fundamental features, **Porifera, Cnidaria, Ctenophora, Platyhelminthes.**

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Sr. No.	Test Name	Test Date	Test Syllabus
13	FT-11	18-Dec-20	**Physics : Gravitation, Mechanical Properties of Solids** **Chemistry : Hydrogen, The s-Block Elements, The p-Block Elements (Group 13 & 14)** **Botany : Transport in Plants(Contd.):** Mechanism of absorption, Ascent of sap– root pressure (including guttation), Transpiration pull , Transpiration – structure of stomata, mechanism of opening and closing of stomata, factors affecting transpiration, significance, Transpiration and photosynthesis – a compromise, Uptake and transport of mineral, Nutrients, Phloem transport–pressure flow or mass flow hypothesis, Demonstration of translocation of food by phloem by girdling experiment, **Mineral Nutrition** **Zoology : Animal Kingdom-General Accounts & Non-chordates-II: Aschelminthes / Nematode, Annelida, Arthropoda, Mollusca, Echinodermata, Hemichordata.**
14	FT-12	15-Jan-21	**Physics : Mechanical Properties of Fluids, Thermal Properties of Matter** **Chemistry : Organic Chemistry : Some Basic Principles & Techniques:** Tetravalency of carbon, Structure of organic compounds, Classification of organic compounds, Nomenclature of organic compounds (excluding functional group)., IUPAC nomenclature of organic compounds including mono and bi functional groups., Isomerism : Structural isomerism including tautomerism, Stereoisomerism (Definition)., Fundamental concepts in organic reaction, Mechanism : Bond fission, Nucleophile and electrophile, Inductive and electromeric effect, Resonance effect., Hyperconjugation **Botany : Photosynthesis in Higher Plants** **Zoology : Animal Kingdom-Chordates**
15	FT-13	5-Feb-21	**Physics : Themodynamics, Kinetic Theory, Oscillations, Waves** **Chemistry : Organic Chemistry : Some Basic Principles & Techniques(Contd.):** Reaction intermediates : Carbocation, Carbanion, Carbon free radicals, Carbene, Types of organic reactions and mechanism : Substitution reactions, Addition, Elimination and rearrangement reactions, Purification of organic compounds, Qualitative analysis, Quantitative analysis, **Hydrocarbons, Environmental Chemistry.** **Botany : Respiration in Plants, Plant Growth and Development** **Zoology : Structural Organisation in Animals– Animal Morphology**

AIATS SCHEDULE
FOR CLASS XI
STUDYING STUDENTS [2020-21]

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Test No.	Test Date	Date of Display of Answer Key	Result Date	Subject	Topics
1.	01.11.2020	02.11.2020	14.11.2020	Phy.	Physical World, Units & Measurements, Motion in a Straight Line
				Chem.	Some basic Concepts of Chemistry, Structure of atom
				Bio.	Cell: The Unit of life, Cell Cycle & Cell division, Structural Organisation in Animals; Animal tissues only, Biomolecules
2.	29.11.2020	30.11.2020	10.12.2020	Phy.	Motion in a Plane
				Chem.	Classification of Elements and Periodicity in properties & Chemical Bonding and Molecular structure
				Bio.	The Living World, Biological Classification, Digestion and Absorption, Breathing & Exchange of gases
3.	27.12.2020	28.12.2020	08.01.2021	Phy.	Laws of Motion, Work,Energy and Power, System of Particles & Rotational Motion : Center of Mass & Motion of Center of Mass
				Chem.	States of matter: Gases & Liquids, Thermodynamics
				Bio.	Morphology of flowering plants, Anatomy of flowering plants, Body fluid and circulation, Excretory product and their elimination
4.	24.01.2021	25.01.2021	05.02.2021	Phy.	System of Particles & Rotational Motion: Rotational Motion, Gravitation
				Chem.	Equilibrium & Redox Reactions
				Bio.	Plant kingdom, Transport in plants, Locomotion and Movement, Neural Control and Co-ordination-I (CNS, PNS, ANS)
5.	21.02.2021	22.02.2021	02.03.2021	Phy.	Mechanical Properties of Solids, Mechanical Properties of Fluids, Thermal Properties of Matter, Thermodynamics, Kinetic Theory
				Chem.	Hydrogen, s-Block Elements (Alkali and Alkaline earth metals) & Some p-Block Elements (Group 13 & 14)
				Bio.	Mineral Nutrition, Photosynthesis in Higher Plants, Neural control & coordination-II(Sense organs), Chemical coordination and Integration,
6.	21.03.2021	22.03.2021	02.04.2021	Phy.	Oscillations, Waves
				Chem.	Organic Chemistry-(Some Basic Principles & Techniques), Hydrocarbons, Environmental Chemistry
				Bio.	Respiration in plants, Plant Growth & Development, Kingdom-Animalia and Structural Organisation in Animal; Animal Morphology only
7.	31.03.2021	01.04.2021	09.04.2021	PCB	Complete syllabus test of class XI (NEET Pattern)
8.	11.04.2021	12.04.2021	15.04.2021	PCB	Complete syllabus test of class XI (NEET Pattern)

Test Duration : 3 Hours

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 only online mode till the government allows for coaching institutes to operate fully in offline mode and accordingly students shall be notified from time to time. Also, 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 1st November, 2020 then the test shall be made live at 10:00 AM on 1st November and will be available till 10:00 AM on 3rd November, 2020. 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.

Important Notes:

- 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.

PRACTICE TEST SCHEDULE

Before AIATS

FOR CLASS XI

STUDYING STUDENTS [2020-21]

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(Divisions of Aakash Educational Services Limited)

Test No.	Opening Date	Closing Date	Subject	Topics
Practice Test-1	26.10.2020	01.11.2020	Phy.	Physical World, Units & Measurements, Motion in a Straight Line
			Chem.	Some basic Concepts of Chemistry, Structure of atom
			Bio.	Cell: The Unit of life, Cell Cycle & Cell division, Structural Organisation in Animals; Animal tissues only, Biomolecules
Practice Test-2	23.11.2020	29.11.2020	Phy.	Motion in a Plane
			Chem.	Classification of Elements and Periodicity in properties & Chemical Bonding and Molecular structure
			Bio.	The Living World, Biological Classification, Digestion and Absorption, Breathing & Exchange of gases
Practice Test-3	21.12.2020	27.12.2020	Phy.	Laws of Motion, Work,Energy and Power, System of Particles & Rotational Motion : Center of Mass & Motion of Center of Mass
			Chem.	States of matter: Gases & Liquids, Thermodynamics
			Bio.	Morphology of flowering plants, Anatomy of flowering plants, Body fluid and circulation, Excretory product and their elimination
Practice Test-4	18.01.2021	24.01.2021	Phy.	System of Particles & Rotational Motion: Rotational Motion, Gravitation
			Chem.	Equilibrium & Redox Reactions
			Bio.	Plant kingdom, Transport in plants, Locomotion and Movement, Neural Control and Co-ordination-I (CNS, PNS, ANS)
Practice Test-5	15.02.2021	21.02.2021	Phy.	Mechanical Properties of Solids, Mechanical Properties of Fluids, Thermal Properties of Matter, Thermodynamics, Kinetic Theory
			Chem.	Hydrogen, s-Block Elements (Alkali and Alkaline earth metals) & Some p-Block Elements (Group 13 & 14)
			Bio.	Mineral Nutrition, Photosynthesis in Higher Plants, Neural control & coordination-II(Sense organs), Chemical coordination and Integration,
Practice Test-6	15.03.2021	21.03.2021	Phy.	Oscillations, Waves
			Chem.	Organic Chemistry-(Some Basic Principles & Techniques), Hydrocarbons, Environmental Chemistry
			Bio.	Respiration in plants, Plant Growth & Development, Kingdom-Animalia and Structural Organisation in Animal; Animal Morphology only
Practice Test-7	25.03.2021	31.03.2021	PCB	Complete syllabus test of class XI (NEET Pattern)
Practice Test-8	05.04.2021	11.04.2021	PCB	Complete syllabus test of class XI (NEET Pattern)

Test Duration : 3 Hours

Practice Test Results can be viewed after submission of Test

The Practice Tests shall be available to attempt online for 7 days from its scheduled date of test. e.g. If a test is scheduled on26th October, 2020 then the test shall be made live at 10:00 AM on 26th October and will be available till 10:00 AM on 01st November, 2020.

Important Notes:

- Parents to ensure students give exam with full honesty and continuity.
- Students giving test early is recommended and not to wait for 7 days to finish.