

### Test Planner (FT, TE ) for PHASE-1 (2020-21)

| Sr. No. | Class | Test Name | Test Date | Test Syllabus   |
|---------|-------|-----------|-----------|---|
| 1       | XI    | FT-01     | 8-May-20  | <p><b>Physics : Physical World, Units &amp; Measurements:</b> Introduction, International system of units, Measurement of length, Mass, Time, Accuracy, Precision of instruments.</p> <p><b>Chemistry : Some Basic Concepts of Chemistry:</b> 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.</p> <p><b>Botany : Cell: The Unit of Life:</b> 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.</p> <p><b>Zoology : Structural organisation in Animals–Animal Tissues-I: Epithelial Tissue:</b> General features, basement membrane, Types of epithelial tissues-Simple., Compound epithelium, specialized epithelial tissues, glandular epithelium, Types of simple &amp; compound glands, <b>Connective Tissue:</b> Connective tissue proper, Loose connective tissue, Dense connective tissues-characters with examples. Supportive connective tissue: Cartilage, Types of cartilage-Hyaline, Elastic, white fibrocartilage &amp; Calcified <b>cartilage</b>, Supportive Connective Tissue: <b>Bone</b>, its structure &amp; composition, Types of bones: Compact bone, Spongy bone, Differences between cartilage &amp; bone: Dried bone &amp; decalcified bone. Cartilage, Investing bone, Sesamoid bone and Visceral bone</p> |
| 2       | XII   | FT-01     | 8-May-20  | <p><b>Physics : Electric Charges &amp; Field:</b> Introduction, Electric charges, Conductors and insulators, Charging by induction, Basic properties of electric charges, Coulomb's law, Force between multiple charges, Electric Field, Electric field due to system of charges.</p> <p><b>Chemistry : Solid State:</b> General characteristics of solid-state, Amorphous and crystalline solids. Classification of crystalline solids : Molecular, ionic, metallic and covalent solids, Crystal lattices and unit cells : Primitive and centered unit cells, Number of atoms in simple cubic, body centered and face centered cubic unit cell, Close packed structures in 2D and 3D ccp and hcp arrangements, Formula of a compound and number of voids filled, Locating tetrahedral and octahedral voids,</p> <p><b>Botany : Reproduction in Organisms :</b> Life span, Basic features of reproduction, Asexual reproduction-Features, Methods (Binary fission, Budding, Sporulation), Vegetative propagation - Natural and artificial (cutting), Artificial (Layering &amp; grafting), Sexual reproduction - Features, Phases of life cycle Events i.e. Pre-fertilization, Fertilization and Post-fertilization.</p> <p><b>Zoology : Reproduction in Organisms, Human Reproduction-I :</b> Sex organs, Male reproductive system: Testes, epididymis, Vas deferens, penis, accessory glands of male reproductive system, seminal plasma and semen.</p>   |

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| Sr. No. | Class | Test Name | Test Date | Test Syllabus   |
|---------|-------|-----------|-----------|---|
| 3       | XI    | FT-02     | 22-May-20 | <p><b>Physics : Units &amp; Measurements:</b> Errors in measurements, Significant figures, Dimensions of physical quantities, Dimensional formulae &amp; dimensional equations, Dimensional analysis and its applications.</p> <p><b>Chemistry : Some Basic Concepts of Chemistry:</b> Mole concept, Molar mass, equivalent mass, Percentage composition, Empirical formula, Stoichiometry and Stoichiometric calculations., Calculations regarding limiting reagents.</p> <p><b>Botany : Cell: The Unit of Life (Contd.):</b> Ribosome, Cytoskeleton, Centrosome and centrioles, Cilia and flagella, Nucleus, Chromosomes, Microbodies, <b>Cell Cycle &amp; Cell Division:</b> Introduction, Cell cycle–phases of cell cycle, Mitosis–definition, Karyokinesis, cytokinesis, significance, Meiosis–definition</p> <p><b>Zoology : Structural organisation in Animals–Animal Tissues-II: Muscular Tissue:</b> Types of Muscles: Striated and non-striated/Smooth muscles (Single unit &amp; Multiunit smooth muscles; Cardiac muscle), <b>Nervous Tissue:</b> Structure of neuron and its parts, Different types of neuron; Myelinated &amp; Nonmyelinated neurons, Neuroglia cells-Types of glial cells, <b>Biomolecules-I:</b> Primary and secondary metabolites, Carbohydrates, Monosaccharides, Triose, Pentose, Hexose, Heptose, Derivatives of monosaccharides, Oligosaccharides, Functions of small carbohydrates, Polysaccharides-homopolysaccharides &amp; heteropolysaccharides, storage &amp; structural polysaccharides</p> |
| 4       | XII   | FT-02     | 22-May-20 | <p><b>Physics : Electric Charges &amp; Field:</b> Electric field lines, Electric Dipole, Dipole in a uniform external field, Electric flux, Continuous charge distribution, Gauss's Law, Application of Gauss's law.</p> <p><b>Chemistry : Solid State:</b> Packing efficiency in simple cubic, hcp/ccp and bcc lattices, Calculation involving unit cell dimensions, Structure of Ionic solids, Imperfections in solids : Types of point defects, electrical and magnetic properties</p> <p><b>Botany : Sexual Reproduction in Flowering Plants :</b> Introduction, Flower - A fascinating organ of angiosperms, Pre-fertilization - structures and events - Stamen, Microsporangium, Microsporogenesis. Pollen grain, Development of male gametophyte, The pistil, Megasporangium (ovule), Types of ovules, Megasporeogenesis, Embryo sac/Female gametophyte development, Pollination : Objective, Kinds - Autogamy, Geitonogamy, Xenogamy, Agents of pollination - Wind, Water, Insects</p> <p><b>Zoology : Human Reproduction-II:</b> Structure of female reproductive system, fallopian tubes, uterus, vagina, female external genitalia and accessory gland of female reproductive system, Structure of mammary glands, spermatogenesis and its hormonal control, structure of mature sperm, Oogenesis and structure of ovum &amp; ovary, Menstrual cycle: Various events and its hormonal control.</p>   |

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| Sr. No. | Class | Test Name | Test Date | Test Syllabus   |
|---------|-------|-----------|-----------|---|
| 5       | XI    | FT-03     | 5-Jun-20  | <p><b>Physics : Motion in a Straight Line:</b> Introduction, Position, Path length and displacement, Average velocity &amp; average speed., Differential calculus, Applications of differential calculus, Instantaneous velocity &amp; speed, Acceleration</p> <p><b>Chemistry : Some Basic Concepts of Chemistry:</b> Reactions in solutions : Mass percentage or weight percentage, Mole-fraction, Molarity, Molality, Normality, <b>Structure of Atom:</b> 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.</p> <p><b>Botany : Cell Cycle &amp; Cell Division (Contd.):</b> Meiosis-I, Meiosis-II, significance of meiosis, <b>The living world:</b> Introduction, What is living?, Characteristics of living beings, Diversity in the living world, Nomenclature, Need for classification, Classification -taxonomy, Systematics, Taxonomic categories.</p> <p><b>Zoology : Biomolecules-II:</b> 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 &amp; 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 &amp; Key model, Induce fit theory, Enzymes: Factors affecting the enzyme activity: substrate concentration, <math>K_m</math> value, Product concentration, Temperature, pH; Enzyme inhibition-competitive, Non competitive, Allosteric enzymes, Isoenzymes and proenzymes</p> |
| 6       | XII   | FT-03     | 5-Jun-20  | <p><b>Physics : Electrostatic Potential and Capacitance:</b> Introduction, electrostatic potential, potential due to a point charge, potential due to an electric dipole, potential due to a system of charges, Equipotential surfaces, Calculating field from potential, Potential energy of a system of charges, Potential energy in an external field</p> <p><b>Chemistry : Solutions</b></p> <p><b>Botany : Sexual Reproduction in Flowering Plants [Contd.] :</b> Outbreeding devices, Pollen-pistil interaction, Double fertilization, Post-fertilization, structures and events - Endosperm, Embryo development, Post fertilization, structure and events - Seed, Fruit; Apomixis and Polyembryony.</p> <p><b>Zoology : Human Reproduction-III :</b> Capacitation and acrosomal reactions, fertilisation, fast block and slow block to prevent polyspermy, embryonic development : cleavage, morula, blastula and implantation, Gastrulation, fate of three germinal layers, pregnancy and embryonic development, Major features, function and types of placenta, Parturition and lactation.</p>   |
| 7       | XI    | TE-01     | 12-Jun-20 | <p><b>Physics : Physical World, Units &amp; Measurements, Motion in a Straight Line:</b> Introduction, Position, Path length and displacement, Average velocity &amp; average speed., Differential calculus, Applications of differential calculus, Instantaneous velocity &amp; speed, Acceleration</p> <p><b>Chemistry : Some Basic Concepts of Chemistry, Structure of Atom:</b> 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.</p> <p><b>Botany : Cell: The Unit of Life, Cell Cycle &amp; Cell Division, The living world (Upto Taxonomic categories)</b></p> <p><b>Zoology : Structural organisation in Animals–Animal Tissues, Biomolecules</b></p>  |

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| Sr. No. | Class | Test Name | Test Date | Test Syllabus  |
|---------|-------|-----------|-----------|--|
| 8       | XII   | TE-01     | 19-Jun-20 | <p><b>Physics : Electric Charges &amp; Field, Electrostatic Potential and Capacitance:</b> Introduction, electrostatic potential, potential due to a point charge, potential due to an electric dipole, potential due to a system of charges, Equipotential surfaces, Calculating field from potential, Potential energy of a system of charges, Potential energy in an external field</p> <p><b>Chemistry : Solid State, Solutions</b></p> <p><b>Botany : Reproduction in Organisms, Sexual Reproduction in Flowering Plants</b></p> <p><b>Zoology : Reproduction in Organisms, Human Reproduction</b></p>  |
| 9       | XI    | FT-04     | 26-Jun-20 | <p><b>Physics : Motion in a Straight Line:</b> Integral calculus, Applications of Integral calculus, Graphs (slope, area etc.), Kinematic equations for uniformly accelerated motion., Motion under gravity, Relative velocity in one dimension.</p> <p><b>Chemistry : Structure of Atom:</b> 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, Hund's rule of maximum multiplicity, Electronic configuration of atoms, Causes of Stability of completely filled and half filled sub-shells</p> <p><b>Botany : The living world(Contd.):</b> Biological concept of species, Taxonomical aids- Herbarium, , Botanical gardens, museum, zoological parks, Key, Flora, Manual, Monographs, Catalogues, <b>Biological Classification:</b> 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</p> <p><b>Zoology : Digestion &amp; Absorption</b></p> |
| 10      | XII   | FT-04     | 3-Jul-20  | <p><b>Physics : Electrostatic Potential and Capacitance:</b> Electrostatics of conductors, dielectrics and polarization, Capacitors and capacitance, The parallel plate capacitor, Effect of dielectrics on capacitance, Combination of capacitors, Energy stored in a capacitor, Van de Graaff Generator.</p> <p><b>Chemistry : Electrochemistry</b></p> <p><b>Botany : Principles of Inheritance &amp; Variation:</b> Introduction, Mendel's law of inheritance, inheritance of one gene. Laws of inheritance dominance segregation, explanation of the concept of dominance. Incomplete dominance, co-dominance, multiple alleles, Pleiotropy, Inheritance of two genes, Law of independent assortment</p> <p><b>Zoology : Reproductive Health, Evolution:</b> Theories &amp; Evidences: Origin of universe (Big Bang theory) solar system, theories of origin of life: panspermia theory, abiogenesis theory, theory of biogenesis</p>   |

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|---------|-------|-----------|-----------|---|
| 11      | XI    | FT-05     | 10-Jul-20 | <p><b>Physics : Motion in a Plane:</b> Introduction, Scalars &amp; Vectors, Multiplication of vectors by real numbers, Addition &amp; subtraction of vectors-graphical method., Resolution of vectors, Vector addition-analytical method., Motion in a plane, Motion in a plane with constant acceleration.</p> <p><b>Chemistry : Classification of Elements and Periodicity in Properties, Chemical Bonding and Molecular Structure:</b> 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</p> <p><b>Botany : Biological Classification(Contd.):</b> Economic importance of bacteria, Archaeobacteria-methanogens, halophiles, thermoacidophiles, Eubacteria – Cyanobacteria, <i>Mycoplasma</i>, Actinomycetes, Protista-General characters, Chrysophytes, Dinoflagellates, Euglenoids, Slime moulds, Protozoans-major groups with some salient features, Fungi-general characters.</p> <p><b>Zoology : Breathing &amp; Exchange of Gases-I:</b> Respiratory passage, structure of Larynx, sound production, lungs, pleurae, external structure of lungs, Internal structure, alveoli., Mechanism of breathing-Inspiration, expiration, thoracic &amp; abdominal breathing, Respiratory/Pulmonary volumes/Respiratory capacities, Exchange of gases between alveoli &amp; blood; exchange of gases between blood &amp; tissue cells., Transport of oxygen, Bohr's effect; Transport of carbon dioxide, Chloride shift (Hamburger's phenomenon), Haldane effect</p> |
| 12      | XII   | FT-05     | 17-Jul-20 | <p><b>Physics : Current Electricity:</b> Introduction, Electric current, Electric currents in conductors. Ohm's law, Drift of electrons and the origin of resistivity, Limitations of Ohm's law, Resistivity of various material, Temperature dependence of resistivity, Electrical energy power, Combination of resistors, series and parallel, Cells, emf. Internal resistance, cells in series and in parallel, Kirchoff's laws and its application</p> <p><b>Chemistry : Chemical Kinetics</b></p> <p><b>Botany : Principles of Inheritance &amp; Variation:</b> Complementary genes, Duplicate genes, Epistasis, Polygenic inheritance, Chromosomal theory of inheritance, Linkage and recombination, Sex determination, Mutations - Gene mutation</p> <p><b>Zoology : Evolution: Theories &amp; Evidences:</b> Chemical origin of life, Stanley Miller's experiment, prebiotic system coacervate and microsphere<br/>Geological time scale, evidences of evolution-Palaentological, timeline of evolution, evolution of horse, Morphological and anatomical evidences of evolution-Homologous, analogous, vestigial organs, Evidences from connecting links, embryological evidences, biogeographical evidences, adaptive radiation</p>   |

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|---------|-------|-----------|-----------|---|
| 13      | XI    | FT-06     | 24-Jul-20 | <p><b>Physics : Motion in a Plane(Contd.):</b> Relative velocity in two dimensions., Projectile motion – Equation of path of a projectile. Time of flight, Maximum height, Horizontal range, Uniform circular motion.</p> <p><b>Chemistry : Chemical Bonding and Molecular Structure:</b> 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 <math>\sigma</math> &amp; <math>\pi</math>-bonds., Hybridisation : Features and conditions, Types of hybridisation : <math>sp</math>, <math>sp^2</math>, <math>sp^3</math>, <math>dsp^2</math>, <math>sp^3d</math>, <math>sp^3d^2</math>, <math>sp^3d^3</math>, 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..</p> <p><b>Botany : Biological Classification(Contd.):</b> Reproduction in fungi, Characters of different classes of fungi - Phycomycetes, Ascomycetes, Basidiomycetes, Salient features of <i>Agaricus</i> &amp; <i>Puccinia</i>, Deuteromycetes, Virus–introduction, discovery, structural components, Structure of some viruses (TMV, bacteriophages),</p> <p><b>Zoology : Breathing &amp; Exchange of Gases-II:</b> Regulation of respiration: Neural regulation, chemical regulation, Respiratory disorders, Bronchitis, Asthma, Emphysema, Occupational respiratory disorder, <b>Body Fluids &amp; Circulation-I:</b> Fluid connective tissue–Blood &amp; composition of blood-blood cells &amp; 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 &amp; changes as indication of heart diseases</p> |

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| Sr. No. | Class | Test Name | Test Date | Test Syllabus  |
|---------|-------|-----------|-----------|--|
| 14      | XI    | TE-02     | 31-Jul-20 | <p><b>Physics : Physical World, Units &amp; Measurements, Motion in a Straight Line:</b> Introduction, Position, Path length and displacement, Average velocity &amp; average speed., Differential calculus, Applications of differential calculus, Instantaneous velocity &amp; speed, Acceleration<br/> <i>[For 9 Questions out of 45]</i></p> <p><b>Motion in a Straight Line:</b> Integral calculus, Applications of Integral calculus. Graphs (slope, area etc.), Kinematic equations for uniformly accelerated motion., Motion under gravity, Relative velocity in one dimension, <b>Motion in a Plane</b><br/> <i>[For 36 Questions out of 45]</i></p> <p><b>Chemistry : Some Basic Concepts of Chemistry, Structure of Atom: Sub-atomic particles :</b> 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.<br/> <i>[For 9 Questions out of 45]</i></p> <p><b>Structure of Atom:</b> 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, Hund's rule of maximum multiplicity, Electronic configuration of atoms, Causes of stability of completely filled and half filled sub-shells., <b>Classification of Elements and Periodicity in Properties, Chemical Bonding and Molecular Structure.</b><br/> <i>[For 36 Questions out of 45]</i></p> <p><b>Botany : Cell: The Unit of Life, Cell Cycle &amp; Cell Division, The living world</b> (Upto Taxonomic categories)<br/> <i>[For 9 Questions out of 45]</i></p> <p><b>The living world:</b> Biological concept of species onwards, <b>Biological Classification:</b> Upto Structure of some viruses (TMV, bacteriophages)<br/> <i>[For 36 Questions out of 45]</i></p> <p><b>Zoology : Structural organisation in Animals–Animal Tissues, Biomolecules</b><br/> <i>[For 9 Questions out of 45]</i></p> <p><b>Digestion &amp; Absorption, Breathing &amp; Exchange of Gases, Body Fluids &amp; Circulation-I:</b> Fluid connective tissue–Blood &amp; composition of blood-blood cells &amp; 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 &amp; changes as indication of heart diseases.<br/> <i>[For 36 Questions out of 45]</i></p> |

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|---------|-------|-----------|-----------|--|
| 15      | XII   | FT-06     | 31-Jul-20 | <p><b>Physics : Current Electricity:</b> Wheatstone bridge, Meter Bridge, Potentiometer, <b>Moving Charges and Magnetism:</b> Introduction, Magnetic force, Motion in a magnetic field, Motion in combined Electric and Magnetic fields.</p> <p><b>Chemistry : Surface Chemistry</b></p> <p><b>General Principles and Processes of Isolation of Elements :</b> Concentration of an ore, Hydraulic washing, Magnetic separation, Froth floatation process</p> <p><b>Botany : Principles of Inheritance &amp; Variation:</b> Mutations - Chromosomal aberrations, Genomatic mutation, Genetic disorders- pedigree analysis, Mendelian disorder<br/>Chromosomal disorder, cytoplasmic inheritance.</p> <p><b>Molecular Basis of Inheritance:</b> Introduction, The DNA-structure of polynucleotide chain, Derivation of DNA structure, DNA packaging in prokaryotes</p> <p><b>Zoology : Evolution: Theories &amp; Evidences:</b> Lamarck's theory, Darwin's theory-Darwin Novelty, Mutation theory, Hardy-Weinberg principle: Gene flow, gene migration, genetic drift, mutation, genetic recombination, natural selection, Speciation: Allopatric and sympatric, Brief account of evolution: Evolution of plant forms, evolutionary history of vertebrates through geological period, Human evolution, prior to ape man, Ape man to prehistoric man, prehistoric to modern man</p> |

# AIATS SCHEDULE

## FOR Repeater Students

### (XII Passed) 2020-21

| AIATS Test No.  | Test Date   | Date of Display of Answer Key | Result Date  | Subject | Topics  |
|-----------------|---|-------------------------------|--|---------|---|
| Practice Test-1 | 04.10.2020<br>(Test will be available to attempt till 27.12.2020) | NA                            | Practice Test Results can be viewed after submission of Test | Phy.    | Physical World, Units & Measurements, Motion in a Straight Line, Motion in a Plane  |
|                 |   |                               |  | Chem.   | Some basic concepts of chemistry, Structure of Atom, Classification of elements and periodicity in properties, Chemical bonding and molecular structure.        |
|                 |   |                               |  | Bio.    | Cell: the Unit of Life, Cell Cycle and Cell Division, The living world, Structural Organisation in Animals–Animal Tissues, Biomolecules, Digestion & Absorption |
| Practice Test-2 | 11.10.2020<br>(Test will be available to attempt till 31.01.2021) | NA                            | Practice Test Results can be viewed after submission of Test | Phy.    | Laws of Motion; Work, Energy and Power; System of Particles and Rotational Motion   |
|                 |   |                               |  | Chem.   | States of Matter : Gases and Liquids, Thermodynamics, Equilibrium, Redox Reactions  |
|                 |   |                               |  | Bio.    | Biological Classification & Morphology of Flowering Plants, Breathing & Exchange of Gases, Body Fluids & Circulation, Excretory Products & their Elimination    |
| Practice Test-3 | 22.11.2020<br>(Test will be available to attempt till 21.02.2021) | NA                            | Practice Test Results can be viewed after submission of Test | Phy.    | Gravitation, Mechanical Properties of Solids, Mechanical Properties of Fluids, Thermal Properties of Matter, Thermodynamics                                     |
|                 |   |                               |  | Chem.   | Electrochemistry, Solutions, Solid State, Chemical Kinetics, Surface Chemistry  |
|                 |   |                               |  | Bio.    | Anatomy of Flowering Plants, Plant Kingdom, Locomotion & Movement, Neural Control & Coordination, Chemical Coordination & Integration                           |
| 1               | 27.12.2020  | 29.12.2020                    | 16.01.2021   | Phy.    | Physical World, Units & Measurements, Motion in a Straight Line, Motion in a Plane  |
|                 |   |                               |  | Chem.   | Some basic concepts of chemistry, Structure of Atom, Classification of elements and periodicity in properties, Chemical bonding and molecular structure.        |
|                 |   |                               |  | Bio.    | Cell: the Unit of Life, Cell Cycle and Cell Division, The living world, Structural Organisation in Animals–Animal Tissues, Biomolecules, Digestion & Absorption |
| 2               | 31.01.2021  | 02.02.2021                    | 20.02.2021   | Phy.    | Laws of Motion; Work, Energy and Power; System of Particles and Rotational Motion   |
|                 |   |                               |  | Chem.   | States of Matter : Gases and Liquids, Thermodynamics, Equilibrium, Redox Reactions  |
|                 |   |                               |  | Bio.    | Biological Classification & Morphology of Flowering Plants, Breathing & Exchange of Gases, Body Fluids & Circulation, Excretory Products & their Elimination    |
| 3               | 21.02.2021  | 23.02.2021                    | 13.03.2021   | Phy.    | Gravitation, Mechanical Properties of Solids, Mechanical Properties of Fluids, Thermal Properties of Matter, Thermodynamics                                     |
|                 |   |                               |  | Chem.   | Electrochemistry, Solutions, Solid State, Chemical Kinetics, Surface Chemistry  |
|                 |   |                               |  | Bio.    | Anatomy of Flowering Plants, Plant Kingdom, Locomotion & Movement, Neural Control & Coordination, Chemical Coordination & Integration                           |

| Test No. | Test Date  | Date of Display of Answer Key | Result Date | Subject | Topics   |
|----------|------------|-------------------------------|-------------|---------|--|
| 4        | 14.03.2021 | 16.03.2021                    | 20.03.2021  | Phy.    | Kinetic Theory, Oscillations, Waves  |
|          |            |                               |             | Chem.   | Organic Chemistry- Some Basic Principles and Techniques, Hydrocarbons  |
|          |            |                               |             | Bio.    | Transport in Plants, Mineral Nutrition, Photosynthesis in higher plants, Respiration in plants, Plant Growth and Development, Animal Kingdom—General Account & Non chordates , Animal Kingdom-Chordates, Structural Organisation in Animals—Animal Morphology (Cockroach only) |
| 5        | 31.03.2021 | 02.04.2021                    | 03.04.2021  | Phy.    | Electric Charges & Field, Electrostatic Potential and Capacitance, Current Electricity   |
|          |            |                               |             | Chem.   | Haloalkanes and Haloarenes, Alcohols, Phenols and Ethers   |
|          |            |                               |             | Bio.    | Reproduction in organisms, Sexual reproduction in flowering plants, Principles of Inheritance & Variation, Reproduction in Organisms, Human Reproduction, Reproductive Health  |
| 6        | 11.04.2021 | 13.04.2021                    | 17.04.2021  | Phy.    | Moving Charges and Magnetism, Magnetism and Matter, Electromagnetic Induction, Alternating Currents; Electromagnetic Waves   |
|          |            |                               |             | Chem.   | Aldehydes, Ketones and Carboxylic Acids, Amines (Organic Compound containing Nitrogen), Coordination Compounds, The d & f-Block Elements, The s-Block Elements   |
|          |            |                               |             | Bio.    | Molecular basis of inheritance, Strategies for enhancement in food production; Microbes in human welfare, Evolution, Human Health & Disease  |
| 7        | 25.04.2021 | 27.04.2021                    | 01.05.2021  | Phy.    | Ray Optics & Optical Instruments, Wave optics, Dual Nature of Matter and Radiation; Atoms, Nuclei; Semiconductors  |
|          |            |                               |             | Chem.   | The p-Block Elements, Hydrogen, General Principles and Processes of Isolation of Elements, Biomolecules, Polymers, Chemistry in Everyday Life, Environmental Chemistry   |
|          |            |                               |             | Bio.    | Organisms and Populations, Ecosystem, Biodiversity and conservation, Environmental issues, Animal Husbandry, Biotechnology-Principles and Processes, Biotechnology and its Applications  |
| 8.       | 02.05.2021 | 04.05.2021                    | 08.05.2021  | PCB     | Open Mock Test on Complete Syllabus of NEET  |
| 9.       | 09.05.2021 | 11.05.2021                    | 15.05.2021  | PCB     | Open Mock Test on Complete Syllabus of NEET  |

**Test Duration : 3 Hours**

Students can find Answer Key & Text Solutions in their AESL account on [www.aakash.ac.in](http://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 27th December, 2020 then the test shall be made live at 10:00 AM on 27th December and will be available till 10:00 AM on 29th December, 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.