

Scholar's Package

Detailed Test Planner CLASS-X

Daily Practice Test Planner

Comprehensive Test Planner

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DAILY PRACTICE TEST SCHEDULE & SYLLABUS

Test Name	Test Syllabus
MAT Daily Test 01	Number Series: Verbal
Mathematics Daily Test 01	Real Numbers :- Introduction of Real Numbers; Euclid's division Lemma
Science Daily Test 01	Phy: LIGHT: REFLECTION AND REFRACTION:- Properties of Light; Propagation of Light; Reflection of Light; Laws of Reflection, Reflection at Plane Surfaces; Numericals Chem: CHEMICAL REACTIONS AND EQUATIONS:- Chemical Reactions; Types of changes; Physical change; Chemical change; Chemical Equation; Essentials of chemical equation; Steps for writing a chemical equation Bio: LIFE PROCESSES:- What are Life Processes?, Nutrition, Mode of Nutrition, Autotrophic Nutrition
Eng + SSt Daily Test 01	Eng: Reading Comprehension:- Reading Passages; Introduction to methods of reading; Types of Passages; Types of Questions; Reading Poetry; Poetic devices SSt: Geography, Ch1: Resources and Development:- Meaning Of Resources, Types Of Resources, Development Of Resources, Sustainable Development, Resource Planning, Resource Planning In India, Conservation Of Resources, Land Resources, Land Utilization, Land Use Pattern In India, Land Degradation And Conservation Measures, Soil As A Resource, Classification Of Soils, Soil Erosion And Soil Conservation
MAT Daily Test 02	(a) Alphabetical Series, (b) Alphanumeric Series
Mathematics Daily Test 02	REAL NUMBERS :- Euclid's division algorithm, Problems discussion related to Euclid's division algorithm
Science Daily Test 02	Phy: LIGHT: REFLECTION AND REFRACTION:- Spherical Mirrors; Reflection at Spherical Mirrors(Laws of Image Formation); Image Formation by a Concave Mirror; Image Formation by a Convex Mirror Chemistry: Balancing of chemical equation; Information conveyed by a chemical equation ; Some Examples of Balancing a Chemical Equation ; Types of a Chemical Equation; Combination reaction Bio: LIFE PROCESSES:- Photosynthesis, Heterotrophic Nutrition, How do Organisms Obtain their Nutrition
Eng + SSt Daily Test 02	Eng: Determiners SSt: History, Ch5: The Age of Industrialization:- Introduction, Before The Industrial Revolution, Hand Labour And Steam Power, Industrialization In The Colonies, Factories Come Up, The Peculiarities Of Industrial Growth, Market For Goods
MAT Daily Test 03	MAT: Number Series, Alphabetical Series & Alpha Numeric Series
Mathematics Daily Test 03	REAL NUMBERS:- Fundamental theorem of arithmetic; Theorem related to fundamental theorem on arithmetic; Problems discussion
Science Daily Test 03	Phy: LIGHT: REFLECTION AND REFRACTION:- Sign Convention for Reflection by Spherical Mirrors; Mirror Formula ; Mirror Formula Derivation Chem: CHEMICAL REACTIONS AND EQUATIONS:- Decomposition reaction; Thermal decomposition reaction; Photochemical decomposition; Electrolytic decomposition reaction; Displacement reaction Bio: LIFE PROCESSES:- Human Alimentary Canal, Functions of Digestive System, Digestive Glands & the Functions of Digestive Enzymes, Salivary Glands, Gastric Glands

DAILY PRACTICE TEST SCHEDULE & SYLLABUS

Test Name	Test Syllabus
Eng + SSt Daily Test 03	Eng: Finites and Non-Finites SSt: Political Science, Ch1: Power Sharing :- Belgium And Sri Lanka , Majoritarianism In Sri Lanka, Accommodation In Belgium, Forms Of Power Sharing
MAT Daily Test 04	Analogy
Mathematics Daily Test 04	REAL NUMBERS:- Rational Numbers; Irrational numbers; Theorems related to rational numbers; Theorems related to irrational numbers
Science Daily Test 04	Phy: LIGHT: REFLECTION AND REFRACTION:- Magnification; Magnification; Nature and Position of Images; Important Points about Spherical Mirrors; Uses of Spherical Mirrors; Numericals Chem: CHEMICAL REACTIONS AND EQUATIONS:- Double displacement reaction; Polymerization reaction; Exothermic and Endothermic reaction; Precipitation reaction Bio: LIFE PROCESSES:- Liver, Pancreas, Intestinal Glands, Absorption, Assimilation, Egestion
Eng + SSt Daily Test 04	Eng: Verb Agreement:- Rules of subject – Verb agreement; Errors of Subject – Verb Agreement; Spotting the error; Sentence Improvement SSt: Economics, Ch1: Development:- What Development Promises-Different People, Different Goals, Income And Other Goals, National Development, How To Compare Different Countries Or States?, Income And Other Criteria, Public Facilities, Sustainability Of Development
MAT Daily Test 05	Classification
Mathematics Daily Test 05	Revision Test
Science Daily Test 05	Phy: LIGHT: REFLECTION AND REFRACTION:- Refraction of Light; Laws of Refraction; Absolute Refractive Index; Refractive Index of One Medium w.r.t. other (Relative Refractive Index); Numericals Chem: CHEMICAL REACTIONS AND EQUATIONS:- Neutralization reaction; Spontaneous and non-spontaneous processes; Oxidation and Reduction reactions; Oxidizing agent; Reducing agent Bio: LIFE PROCESSES:- Respiration, Aerobic Respiration, Anaerobic Respiration, Respiration in Animals
Eng + SSt Daily Test 05	Eng: Modals Sst: Geography, Ch2: Forest and Wildlife Resources:- Introduction, Flora And Fauna In India, Classification Of Plant And Animal Species By IUCN, Causes Of Depletion Of Forests And Wildlife, Conservation Of Forest And Wildlife In India, Types And Distribution Of Forest And Wildlife Resources, Community And Conservation
MAT Daily Test 06	MAT: Number Series, Alphabetical Series & Alpha Numeric Series, Analogy
Mathematics Daily Test 06	Revision Test

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Test Name	Test Syllabus
Science Daily Test 06	<p>Phy: LIGHT: REFLECTION AND REFRACTION:- Condition for no Refraction; Apparent Depth of a Tank; Refraction Through a Rectangular Glass Slab; Numericals, Total Internal Reflection; Critical Angle; Conditions for Total Internal Reflection</p> <p>Chem: CHEMICAL REACTIONS AND EQUATIONS:- Redox reaction ; Oxidation number; Calculation of oxidation numbers of various elements</p> <p>Bio: LIFE PROCESSES:- Human Respiratory System, Mechanism of Breathing</p>
Eng + SSt Daily Test 06	<p>Eng: Tenses</p> <p>SSt: Political Science, Ch2: Federalism:- What Is Federalism?, What Makes India A Federal Country?, How Is Federalism Practiced?, Decentralisation In India</p>
MAT Daily Test 07	Direction Sense Test
Mathematics Daily Test 07	POLYNOMIALS:- Introduction; Types of polynomials; Degree of the polynomial; Zeroes of the polynomial; Geometrical meaning of zeroes of a polynomial
Science Daily Test 07	<p>Phy: LIGHT: REFLECTION AND REFRACTION:- Spherical Lenses; Refraction by Spherical Lenses; Laws of Image Formation by Spherical Lenses; Sign Convention; Lens Formula; Magnification Produced by a Lens</p> <p>Chem: CHEMICAL REACTIONS AND EQUATIONS:- Effect of Oxidation in Everyday Life; Corrosion; Rancidity</p> <p>Bio: LIFE PROCESSES:- Respiration in Plants, Transportation in Plants</p>
Eng + SSt Daily Test 07	<p>Eng: Conditionals</p> <p>SSt: Geography, Ch3: Water Resources:- Introduction, Water Scarcity And The Need For Water Conservation And Management, Multi-Purpose River Projects And Integrated Water Resources Management, Rainwater Harvesting</p>
MAT Daily Test 08	MAT: Number Series, Alphabetical Series & Alpha Numeric Series, Classification, Direction Sense Test
Mathematics Daily Test 08	POLYNOMIALS:- Relationship between zeroes and coefficients of (a) quadratic (b) cubic polynomials; How to find unknown coefficients when relation between zeroes and coefficients is given
Science Daily Test 08	<p>Phy: LIGHT: REFLECTION AND REFRACTION:- Power of a Lens; Power and Focal Length of the Combination of Lenses; Numericals; Application in Daily Life</p> <p>Chem: ACIDS, BASES AND SALTS:- Acids; Arrhenius concept of acids and bases ; Classification of Acids; Depending on strength; Depending on the sources; Depending on concentration; Depending on molecular composition; Depending on basicity</p> <p>Bio: LIFE PROCESSES:- Transportation in Human Beings, Blood</p>
Eng + SSt Daily Test 08	<p>Eng: Voice change</p> <p>SSt: Political Science, Ch3: Democracy and Diversity:- A Story From Mexico Olympics, Differences, Similarities, Divisions, Politics Of Social Divisions</p>

DAILY PRACTICE TEST SCHEDULE & SYLLABUS

Test Name	Test Syllabus
MAT Daily Test 09	Coding Decoding
Mathematics Daily Test 09	POLYNOMIALS :- Division algorithm for polynomials with real coefficients
Science Daily Test 09	<p>Phy: HUMAN EYE AND COLOURFUL WORLD:- The Human Eye; Parts of Human Eye; Working of Ciliary Muscles; Power of Accommodation; Working of the Eye; Defects of Vision; Myopia(Short Sightedness or Near Sightedness); Hypermetropia or Hyperopia (Long Sightedness or Farsightedness); Presbyopia; Astigmatism; Cataract</p> <p>Chem: ACIDS, BASES AND SALTS:- Preparation of Acids; By direct combination; By double displacement; By the reaction of acidic oxide with water; By oxidation of non-metals; Properties of Acids; Physical properties of Acids</p> <p>Bio: LIFE PROCESSES:- Human Circulatory System, Human Heart, Lymphatic System</p>
Eng + SSt Daily Test 09	<p>Eng: Reported speech</p> <p>SSt: Geography, Ch4: Agriculture:- Introduction, Types Of Farming, Primitive Subsistence Farming, Intensive Subsistence Farming, Commercial Farming, Cropping Pattern-Rabi, Kharif, Zaid, Major Crops-Rice, Wheat, Millets, Maize, Pulses, Food Crops Other Than Grains-Sugarcane, Oilseeds, Tea, Coffee, Horticulture Crops, Non-Food Crops-Rubber, Fibre Crops-Cotton And Jute, Technological And Institutional Reforms, Bhoodan-Gramdan, Contribution Of Agriculture To The National Economy, Employment And Output, Food Security, Impact Of Globalization On Agriculture</p>
MAT Daily Test 10	Blood Relation
Mathematics Daily Test 10	Maths: Polynomials
Science Daily Test 10	<p>Phy: HUMAN EYE AND COLOURFUL WORLD:- Persistence of Vision; Refraction of Light Through a Prism; Dispersion of White Light by Glass Prism; Rainbow; Atmospheric Refraction; Twinkling of Stars; Oval Shape of the Sun in the Morning; Duration of Sun's Visibility; Scattering of Light; Tyndall Effect; Blue Colour of Sky; Reddish Colour of Sun at the Time of Sunrise and Sunset</p> <p>Chem: ACIDS, BASES AND SALTS:- Chemical properties of acids; Uses of Acids; All the compounds containing hydrogen are not acids; Acids do not show acidic behaviour in the absence of water</p> <p>Bio: LIFE PROCESSES:- Excretion in Human Beings, Human Excretory System, Nephron , Mechanism of Excretion, Excretion in Plants</p>
Eng + SSt Daily Test 10	<p>Eng: Prepositions</p> <p>SSt: History, Ch7: Print Culture and the Modern World:- Introduction, The First Printed Books, Print Comes To Europe, The Print Revolution And Its Impact, The Reading Mania, The Nineteenth Century, India And The World Of Printing, Religious Reform And Public Debates, New Forms Of Publication, Print And Censorship</p>
MAT Daily Test 11	MAT: Alphabetical Series & Alpha Numeric Series, Analogy, Classification, Direction Sense Test, Blood Relation
Mathematics Daily Test 11	PAIR OF LINEAR EQUATIONS IN TWO VARIABLES:- Introduction; Linear equation in two variables (consistent and inconsistent system); Geometrical representation of a pair of linear equations; System of equations representing intersecting lines; System of equations representing parallel lines; System of equations representing coincident lines ; Solution of simultaneous equations by graphical method

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Test Name	Test Syllabus
Science Daily Test 11	<p>Phy: HUMAN EYE AND COLOURFUL WORLD:- Additional Information; Colour Detection; Critical Angle; Total Internal Reflection; Essential Conditions for T I R</p> <p>Chem: ACIDS, BASES AND SALTS:- Bases</p> <p>Bio: CONTROL AND COORDINATION IN ANIMALS AND PLANTS:- Control and Coordination in Animals, Nervous System</p>
Eng + SSt Daily Test 11	<p>Eng: Connectors</p> <p>SSt: Political Science, Ch4: Gender Religion and Caste:- Gender And Politics, Religion, Communalism And Politics, Caste And Politics</p>
MAT Daily Test 12	Venn Diagram
Mathematics Daily Test 12	PAIR OF LINEAR EQUATIONS IN TWO VARIABLES :- Solution of simultaneous equations by algebraic method; Substitution method; Elimination method
Science Daily Test 12	<p>Phy: HUMAN EYE AND COLOURFUL WORLD:- Application of Total Internal Reflection (T I R); The Brilliance of Diamond; Mirage; Totally Reflecting Glass Prisms; Optical Fibres and their Uses; Shining of Air Bubbles</p> <p>Chem: ACIDS, BASES AND SALTS:- Classification of Bases; Depending on strength; Depending on concentration; Depending on acidity; Preparation of Bases; Properties of Bases; Physical properties of Bases; Chemical properties of Bases; Uses of Bases; Reactivity of Acids and Bases; Uses of Neutralization</p> <p>Bio: CONTROL AND COORDINATION IN ANIMALS AND PLANTS:- Neuron, Generation and Conduction of Nerve Impulse, Synapse, Neuromuscular Junction</p>
Eng + SSt Daily Test 12	<p>Eng: Relatives</p> <p>SSt: Economics, Ch2: Sectors of the Indian Economy:- Sectors Of Economic Activities, Comparing The Three Sectors, Primary, Secondary and Tertiary Sectors In India, Division Of Sectors As Organized And Unorganized, Sectors In Terms Of Ownership: Public and Private Sectors</p>
MAT Daily Test 13	MAT: Venn Diagram, Coding and Decoding
Mathematics Daily Test 13	PAIR OF LINEAR EQUATIONS IN TWO VARIABLES:- Cross multiplication method; Solving a system of equations which can be reduced a system of simultaneous linear equations; Conditions for solvability
Science Daily Test 13	<p>Phy: Revision Test (Light: Reflection and Refraction)</p> <p>Chem: ACIDS, BASES AND SALTS:- Indicator; Strength of Acids and Bases; pH ; Uses of pH value; Numericals</p> <p>Bio: CONTROL AND COORDINATION IN ANIMALS AND PLANTS:- Receptors, Reflex Action, Mechanism of Reflex Action, Why Reflex Arcs have evolved in Animals?</p>

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Test Name	Test Syllabus
Eng + SSt Daily Test 13	<p>Eng: Comparison and Nominalisation</p> <p>SSt: Geography, Ch5: Minerals and Energy Resources:- What Is A Mineral?, Classification Of Minerals, Mode Of Occurrence Of Minerals, Metallic Minerals, Ferrous Minerals-Iron, Manganese, Non-Ferrous Minerals-Copper, Bauxite And Aluminium, Non-Metallic Minerals-Mica, Rock Minerals-Limestone, Conservation Of Minerals, Energy Resources, Conventional Sources Of Energy-Coal, Petroleum, Natural Gas, Electricity(Hydro And Thermal), Non-Conventional Sources Of Energy-Nuclear Or Atomic Energy, Solar Energy, Wind Power, Biogas, Tidal Energy, Geo Thermal Energy, Conservation Of Energy Resources</p>
MAT Daily Test 14	MAT: Alphabetical Series & Alpha Numeric Series, Analogy, Direction Sense Test
Mathematics Daily Test 14	PAIR OF LINEAR EQUATIONS IN TWO VARIABLES :- Applications of practical problems
Science Daily Test 14	<p>Phy: Revision Test (HUMAN EYE AND COLOURFUL WORLD)</p> <p>Chem: ACIDS, BASES AND SALTS:- Salts; Nomenclature of salts; Family of salts; Classification of salts; Preparation of salts: Preparation of soluble salts; Preparation of insoluble salts; Properties of salts</p> <p>Bio: CONTROL AND COORDINATION IN ANIMALS AND PLANTS:- Human Nervous System, Central Nervous System , Peripheral Nervous System</p>
Eng + SSt Daily Test 14	<p>Eng: Comparison & Nominalisation</p> <p>SSt: History, Ch2: The Nationalist Movement in Indo-China:- Introduction, Emerging From The Shadow Of China, The Dilemma Of Colonial Education, Hygiene, Disease And Everyday Resistance, Religion And Anti-Colonialism, The Vision Of Modernization, The Communist Movement And Vietnamese Nationalism, The Nation And Its Heroes, The End Of The War</p>
MAT Daily Test 15	MAT: Venn Diagram, Coding and Decoding, Direction Sense Test, Blood Relation
Mathematics Daily Test 15	Revision Test (Pair of Linear Equations in two variables)
Science Daily Test 15	<p>Phy: ELECTRIC CURRENT AND ITS EFFECTS:- Introduction, Electric Charge, Properties of Electric Charge, Quantization of Charge, Conservation of Charge, Invariance of charge, Coulomb's Law & numericals, Conductors and Insulators, Electric Current</p> <p>Chem: ACIDS, BASES AND SALTS:- Some Important Salts; Sodium chloride; Bleaching powder, Washing soda; Water of crystallization ; Baking soda; Plaster of Paris; Lime</p> <p>Bio: CONTROL AND COORDINATION IN ANIMALS AND PLANTS:- Endocrine System, Hormones in Animals, General Properties of Hormones, Hypothalamus, Pituitary Gland</p>
Eng + SSt Daily Test 15	<p>Eng: Sentence Rearrangement</p> <p>SSt: Political Science, Ch5: Popular Struggles and Movements:- Popular Struggles In Nepal And Bolivia, Mobilisation And Organizations, Pressure Groups And Movements</p>
MAT Daily Test 16	Syllogism, Venn diagram

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Test Name	Test Syllabus
Mathematics Daily Test 16	Revision Test (Pair of Linear Equations in two variables)
Science Daily Test 16	Phy: ELECTRIC CURRENT AND ITS EFFECTS:- Electric Potential and potential Difference, Flow of Charge, Common Measuring Instruments, Ohm's Law, Resistance and Resistivity Chem: METALS AND NON-METALS:- Metals; Occurrence of metals; Physical properties of metals; Activity series of metals, Characteristics regarding activity series of metals Bio: CONTROL AND COORDINATION IN ANIMALS AND PLANTS:- Thyroid Gland, Parathyroid Glands, Adrenal Glands, Pancreas and Gonads, Pineal Gland, Homeostasis
Eng + SSt Daily Test 16	Eng: Gap-Filling SSt: Economics, Ch3: Money and Credit:- Money As A Medium Of Exchange, Modern Forms Of Money, Loan Activities Of Banks, Two Different Credit Situations, Terms Of Credit, Formal Sector Credit In India, Self-Help Groups For The Poor
MAT Daily Test 17	Venn Diagram, Mathematical Operations
Mathematics Daily Test 17	QUADRATIC EQUATIONS :- Introduction; Quadratic equations and its roots; Methods for solving quadratic equation; Factorization
Science Daily Test 17	Phy: ELECTRIC CURRENT AND ITS EFFECTS:- Factors Affecting Resistance, Numericals, Electrical Circuits, Active Elements, Passive Elements, Circuit Symbols Chem: METALS AND NON-METALS:- Chemical properties of metals; Reaction of metals with oxygen; Reaction of metals with water; Reaction of metals with dilute acids ,Reaction of metals with salt solution; Reaction of metals with chlorine; Reaction of metals with hydrogen; Uses of metals Bio: CONTROL AND COORDINATION IN ANIMALS AND PLANTS:- Coordination in Plants, Nastic Movements, Tropic Movements
Eng + SSt Daily Test 17	Eng: Editing & Omission :- Most common errors, Types of questions SSt: Geography, Ch6: Manufacturing Industries:- Meaning Of Manufacturing, Importance Of Manufacturing, Contribution Of Industry To National Economy, Industrial Location, Classification Of Industries, Agro Based Industries, Mineral Based Industries, Industrial Pollution And Environmental Degradation, Control Of Environmental Degradation
MAT Daily Test 18	MAT: Classification, Venn Diagram, Analogy, Direction Sense Test, Blood Relation
Mathematics Daily Test 18	QUADRATIC EQUATIONS :- Completing the square; Nature of roots; Framing a quadratic equation
Science Daily Test 18	Phy: ELECTRIC CURRENT AND ITS EFFECTS:- Combination of Resistances, Series Combination, Equivalent Resistance in Series Combination, Numericals Chem: METALS AND NON-METALS:- Non-Metals; Occurrence of non-metals; Physical properties of non-metals; Chemical properties of non-metals; Reaction of non-metals with oxygen; Reaction of non-metals with water; Reaction of non-metals with dilute acids; Reaction of non-metals with salt solutions; Reaction of non-metals with chlorine; Reaction of non-metals with hydrogen; Uses of non-metals Bio: CONTROL AND COORDINATION IN ANIMALS AND PLANTS:- Plant Hormones, Auxin, Gibberellin, Cytokinin, Abscisic Acid, Ethylene

DAILY PRACTICE TEST SCHEDULE & SYLLABUS

Test Name	Test Syllabus
Eng + SSt Daily Test 18	Eng: Editing-Omission SSt: Political Science, Ch6: Political Parties:- Why Do We Need Political Parties?, How Many Parties Should We Have?, Popular Participation In Political Parties, National Political Parties, State Parties, Challenges To Political Parties, How Can Parties Be Reformed?
MAT Daily Test 19	MAT: Number Series, Alphabetical Series & Alpha Numeric Series, Direction Sense Test, Coding and Decoding, Blood Relations, Venn Diagram
Mathematics Daily Test 19	QUADRATIC EQUATIONS :- Procedure to solve word problems
Science Daily Test 19	Phy: ELECTRIC CURRENT AND ITS EFFECTS:- Parallel Combination, Equivalent Resistance in Parallel Combination, Numericals, Advanced Numericals based on Combinations of Resistances Advanced Numericals based on Combinations of Resistances Chem: METALS AND NON-METALS:- Comparative study of Metals and Non-metals Bio: HOW DO ORGANISMS REPRODUCE: Introduction, Life span, Do organisms create exact copies of themselves?, Modes of reproduction, Asexual Reproduction, Fission- Binary fission and Multiple fission
Eng + SSt Daily Test 19	Eng: Vocabulary: Synonyms, Antonyms & One word substitution SSt: Economics, Ch4: Globalisation and the Indian Economy:- Introduction, Production Across Countries, Interlinking Production Across Countries, Foreign Trade And Integration Of Markets, What Is Globalisation?, Factors That Have Enabled Globalization, World Trade Organisation, Impact Of Globalisation In India, The Struggle For A Fair Globalisation
MAT Daily Test 20	Calendar & Clock
Mathematics Daily Test 20	Revision Test (Quadratic Equations)
Science Daily Test 20	Phy: ELECTRIC CURRENT AND ITS EFFECTS:- Heating Effect of Current, Electric Power, Numericals Chem: METALS AND NON-METALS:- Interaction in Metals and Non-Metals; Chemical bond; Causes of chemical bond formation; Types of chemical bonds; Ionic Bond; Examples of ionic bond; Nature and structure of ionic compounds; Characteristics of ionic compounds; Covalent Bond; Examples of covalent bond ; Types of covalent bonds; Characteristics of covalent compounds ; Octet rule Bio: HOW DO ORGANISMS REPRODUCE?: -Fragmentation, Regeneration, Budding, Spore formation, Vegetative propagation, Advantages of vegetative propagation
Eng + SSt Daily Test 20	Eng: Revision Test SSt: Geography, Ch7: Lifelines of National Economy:- Introduction, Importance Of Transport, Transport, Roadways, Classification , Road Density, Railways, Pipelines, Waterways, Major Sea Ports, Airways, Communication, International Trade, Tourism As A Trade
MAT Daily Test 21	MAT: Raking Test, Calender & Clock, Analytical Reasoning, Diagramatic Puzzles
Mathematics Daily Test 21	ARITHMETIC PROGRESSIONS:- Introduction; Sequence and series; Sequence; Terms of a sequence; Finite and infinite sequences; Representation of a sequence; Progression; Series; Arithmetic Progressions; nth term of an arithmetic progression

DAILY PRACTICE TEST SCHEDULE & SYLLABUS

Test Name	Test Syllabus
Science Daily Test 21	<p>Phy: ELECTRIC CURRENT AND ITS EFFECTS:-Grouping of Cells, Wheat Stone Bridge (Balanced condition only)</p> <p>Chem: METALS AND NON-METALS:- Comparative Study of Properties of Ionic and covalent compounds; Metals in Nature; Metallurgy; Mining of ore ; Sizing of ore; Concentration of ore</p> <p>Bio: HOW DO ORGANISMS REPRODUCE?: -Micropropagation and its advantages, Sexual Reproduction, Sexual reproduction in flowering plants</p>
Eng + SSt Daily Test 21	<p>Eng: Revision Test</p> <p>SSt: History, Ch3: Nationalism in India:- Introduction, The First World War, Khilafat And Non-Cooperation, Differing Strands Within The Movement, Towards Civil Disobedience, The Sense Of Collective Belonging</p>
MAT Daily Test 22	MAT: Coding and Decoding, Alphabetical Series & Alpha Numeric Series, Analogy, Direction Sense Test
Mathematics Daily Test 22	ARITHMETIC PROGRESSIONS:- Sum of n terms of an arithmetic progression; Applications of arithmetic progressions
Science Daily Test 22	<p>Phy: MAGNETIC EFFECTS OF ELECTRIC CURRENT:- Introduction, Magnetic Field and Its Unit, Magnetic Field Lines, Properties of Magnetic Field Lines, Magnetic Effect of Current, Magnetic Field due to Long Straight Current Carrying Wire</p> <p>Chem: METALS AND NON-METALS:- Oxidation of ore; Calcination; Roasting; Reduction of oxide ore into metal ; Smelting; Thermite process,Self reduction; Electrolytic reduction ; Amalgamation process ; Purification of metal; Alloys; Corrosion</p> <p>Bio: HOW DO ORGANISMS REPRODUCE?: -Pollination, Fertilization in plants, Reproduction in human beings, Puberty</p>
Eng + SSt Daily Test 22	<p>Eng: Revision Test</p> <p>SSt: Political Science, Ch7: Outcomes of Democracy:- How We Assess Democracy's Outcomes?, Accountable, Responsive And Legitimate Government, Economic Growth And Development, Economic Outcomes Of Democracy, Reduction Of Inequality And Poverty, Accommodation Of Social Diversity, Dignity And Freedom Of The Citizens</p>
MAT Daily Test 23	Non-Verbal (Classification, Series, Analogy)
Mathematics Daily Test 23	Revision Test (Arithmetic Progressions)
Science Daily Test 23	<p>Phy: MAGNETIC EFFECTS OF ELECTRIC CURRENT:- Right Hand Thumb Rule, Magnetic Field due to a Circular Coil Carrying Current, Magnetic Field due to a Current in a Long Solenoid</p> <p>Chem: Revision test (Chemical reactions and equations. Acids bases and salts, Metals and non metals)</p> <p>Bio: HOW DO ORGANISMS REPRODUCE?: -Male Reproductive system</p>
Eng + SSt Daily Test 23	<p>Eng: Revision Test</p> <p>SSt: Economics, Ch5: Consumer Rights:- Introduction, The Consumer In The Marketplace, Consumer Movement, Consumer Rights, Learning To Become Well-Informed Consumers, Taking The Consumer Movement Forward</p>

DAILY PRACTICE TEST SCHEDULE & SYLLABUS

Test Name	Test Syllabus
MAT Daily Test 24	Diagrammatic Puzzles
Mathematics Daily Test 24	TRIANGLES :- Introduction, Similar figures, Similar polygons, Similar triangles, Basic Proportionality Theorem and its converse; Problems on BPT
Science Daily Test 24	Phy: MAGNETIC EFFECTS OF ELECTRIC CURRENT:- Advanced Numericals based on Long Straight Current carrying wire and circular Coil, Electromagnet, Force on a Moving Charge in a Magnetic Field Chem: Revision test (Chemical reactions and equations. Acids bases and salts) Bio: HOW DO ORGANISMS REPRODUCE? :- Female Reproductive system
Eng + SSt Daily Test 24	Eng: Revision Test SSt: Political Science, Ch8: Challenges to Democracy:- Thinking About Challenges, Different Contexts, Different Challenges, Different Types Of Challenges, Thinking About Political Reforms, Redefining Democracy
MAT Daily Test 25	Cubes and Dices
Mathematics Daily Test 25	TRIANGLES:- Theorems related to criteria of similarity of similar triangles; AAA Similarity Theorem; SSS Similarity Theorem; SAS Similarity Theorem ; Problems on Similarity
Science Daily Test 25	Phy: MAGNETIC EFFECTS OF ELECTRIC CURRENT:- Force on a Current Carrying Conductor Placed in a magnetic Field, Fleming's Left Hand Rule, Numericals Chem: CARBON AND COMPOUNDS:- § Introduction; Carbon in daily life; Allotropes of Carbon; Diamond; Structure of diamond; Physical properties; Uses; Graphite; Structure of graphite; Physical properties; Uses of graphite; Fullerenes; Structure of Fullerenes; Physical properties; Uses of fullerenes Bio: HOW DO ORGANISMS REPRODUCE?: -Fertilization in human beings, What happens when egg is not fertilized?, Reproductive health, Sexually Transmitted Diseases (STD)
MAT Daily Test 26	Water and Mirror Image
Mathematics Daily Test 26	TRIANGLES :- Theorem related to areas of similar triangles
Science Daily Test 26	Phy: MAGNETIC EFFECTS OF ELECTRIC CURRENT:- Electric Motor, Principle of Electric Motor, Working of Electric Motor Chem: CARBON AND COMPOUNDS:- § Bonding in Carbon; Bonding of carbon with itself; Bonding of carbon with other atom; Carbon forms single bond with hydrogen; Carbon can form double bond with oxygen; Carbon can form triple bond with nitrogen; Organic Chemistry(Introduction); Reasons for Large Number of Organic Compounds; Catenation; Tendency to form multiple bonds; Isomerism; Examples of isomers of pentane; Definition of chain isomerism Bio: Control and coordination in animals and plants, Nervous system & neurons, Synapse , reflex actions, necessity of reflex actions, why reflex arcs have evolved in animals.

DAILY PRACTICE TEST SCHEDULE & SYLLABUS

Test Name	Test Syllabus
MAT Daily Test 27	MAT: Calender & Clock, Ranking Test, Mirror Image, Blood Relation, Direction Sense Test, Incomplete Figures, Embedded Figures, Transparent Paper Folding
Mathematics Daily Test 27	TRIANGLES :- Pythagoras theorem & its converse
Science Daily Test 27	Phy: MAGNETIC EFFECTS OF ELECTRIC CURRENT:- Advanced problems based on force experienced by a charge moving in magnetic field, Electromagnetic Induction, Fleming's Right Hand Rule. Chem: CARBON AND COMPOUNDS:- o Hydrocarbons; Introduction; Acyclic or open chain compounds; Saturated hydrocarbon (Alkanes); Unsaturated hydrocarbons(alkenes and alkynes); Cyclic or closed chain or ring compounds; Functional Groups; The Homologous Series; Examples; Characteristics Bio: HEREDITY AND EVOLUTION:- Introduction; Variations; Types of variations; Somatic variations; Germinal variations; Sources of genetic variations; Accumulation of variations during reproduction; Heredity; Inherited traits; Basis of heredity ; Genetics terminology
MAT Daily Test 28	MAT: Coding and Decoding, Classification, Syllogism, Blood Relation, Non-Verbal Classification, Cubes & Dices, Calender & Clock, Incomplete Figures
Mathematics Daily Test 28	TRIANGLES :- Internal angle bisector theorem & its converse; External angle bisector theorem
Science Daily Test 28	Phy: MAGNETIC EFFECTS OF ELECTRIC CURRENT:- Household Electric Circuit, Domestic Wire, Electric Problems, Overload, Short circuit, Precaution in the use of Electricity Chem: CARBON AND COMPOUNDS:- § IUPAC - Nomenclature of Organic Compounds; Trivial/common system; IUPAC system; IUPAC Nomenclature; Nomenclature of branched chain hydrocarbons; Rules for nomenclature of hydrocarbons; Longest chain rule; Lowest set or lowest sum rule; Examples of naming hydrocarbons., Nomenclature of Organic Compounds having Functional Group; Carboxylic acids; Esters; Aldehydes; Ketones; Alcohols; Miscellaneous examples, Bond Line Notations of Organic Compounds; Types of Chemical Reactions in Organic Compounds; Combustion; Oxidation; Addition reaction; Elimination reaction Bio: HEREDITY AND EVOLUTION:- Father of genetics; Why Mendel selected pea plant for his experiments?; Monohybrid cross; Punnett square; Mendel's first three postulates; Unit factors in pairs
MAT Daily Test 29	MAT: Number Series Alphabetical & , Alphanumeric Series, Classification, Non-Verbal (Series)
Mathematics Daily Test 29	Revision Test (Triangles)
Science Daily Test 29	Phy: MAGNETIC EFFECTS OF ELECTRIC CURRENT:- Magnetism & Matter, Basics of Earth's Magnetism ,Magnetic Elements, Diamagnetic, Paramagnetic & Ferromagnetic Substances Chem: CARBON AND COMPOUNDS:- Substitution reaction; Polymerization reaction; Some Important Organic Compounds; Ethyl Alcohol or Ethanol; Preparation of ethyl alcohol; Physical properties Bio: HEREDITY AND EVOLUTION:- Law of Dominance; Law of Segregation; Dihybrid cross; Law of Independent Assortment; How do these traits get expressed?

DAILY PRACTICE TEST SCHEDULE & SYLLABUS

Test Name	Test Syllabus
MAT Daily Test 30	MAT: Analogy, Classification, Direction Sense Test, Ranking Test, Non-Verbal (Classification, Analogy)
Mathematics Daily Test 30	Revision Test (Triangles)
Science Daily Test 30	<p>Phy: SOURCES OF ENERGY:- Introduction, Sources of Energy, Characteristics of a Good Source of Energy, Renewable Sources of Energy, Solar Energy, Composition of the Sun's Energy, Solar Energy Devices, Solar Cooker, Solar Concentrator, Solar Water Heater, Solar Cell and its Uses, Wind Energy, Hydro Energy</p> <p>Chem: CARBON AND COMPOUNDS:- Chemical properties; Combustion; Reaction with sodium; Oxidation; Dehydration reaction; Esterification; Some commercial forms of ethanol; Uses of Alcohol</p> <p>Bio: HEREDITY AND EVOLUTION:- o Sex determination; Chromosomes in human beings; Sex chromosomes; Autosomes, Origin of life on earth; Theory of chemical evolution</p>
MAT Daily Test 31	MAT: Blood Relation, Coding and Decoding, Venn Diagram
Mathematics Daily Test 31	COORDINATE GEOMETRY (LINES IN TWO – DIMENSIONS) :- Introduction; Rectangular coordinate system; Coordinates of a point; Distance formula; Circumcentre of a triangle
Science Daily Test 31	<p>Phy: SOURCES OF ENERGY:- SOURCES OF ENERGY:- Bio-fuel, Biomass as Fuel, Charcoal, Animal Dung, Bio-gas, Fixed Dome Type Bio-gas Plant, Floating Gas Holder Type Bio-gas Plant, Advantages of Bio-gas Plant, Important Uses of Bio-gas</p> <p>Chem: CARBON AND COMPOUNDS:- Ethanoic Acid; Preparation; Properties of Ethanoic Acid; Physical properties; Chemical properties; Acidic nature; Reaction of bases; Reaction with carbonates and bicarbonates</p> <p>Bio: HEREDITY AND EVOLUTION:- Evolution; Inherited traits; Acquired traits ; Speciation, Evolution and classification; Tracing evolutionary relationships; Comparative morphological evidences; Homologous organs; Analogous organs; Vestigial organs</p>
MAT Daily Test 32	MAT: Syllogism, Mathematical Operations
Mathematics Daily Test 32	COORDINATE GEOMETRY (LINES IN TWO – DIMENSIONS) :- Section formula, Internal division, Mid- point formula, Applications of section formula
Science Daily Test 32	<p>Phy: SOURCES OF ENERGY:- Alcohol as fuel, Hydrogen, Energy From Oceans, Tidal Energy, Ocean Wave Energy, Ocean Thermal Energy, Geothermal Energy, Environmental Consequences</p> <p>Chem: CARBON AND COMPOUNDS:- Esterification; Reduction; Uses of Ethanoic acid; Soap and Detergents; Soap; Saponification; Structure of Soap; Detergent; Structure of Detergent, Cleansing Action of Soap and Detergents; Advantages of Detergents over Soaps for Washing Purposes; Disadvantages of Detergents over Soap (Detergent Pollution)</p> <p>Bio: HEREDITY AND EVOLUTION:- Embryological evidences; Molecular phylogeny; Fossils; Fossilization, How do fossils form layer by layer?; Determination of the age of fossil; Evolution by stages; Evolution should not be equated with progress; Human evolution</p>

DAILY PRACTICE TEST SCHEDULE & SYLLABUS

Test Name	Test Syllabus
MAT Daily Test 33	MAT: Number Series Alphabetical & Alphanumeric Series, Analogy, Classification, Coding & Decoding Blood Relation, Venn Diagram, Ranking Test, Non-verbal (Analogy, Classification)
Mathematics Daily Test 33	COORDINATE GEOMETRY (LINES IN TWO – DIMENSIONS):- Area of a triangle, Slope of Line Related Problem
Science Daily Test 33	Phy: NON RENEWABLE SOURCES OF ENERGY Chem: PERIODIC CLASSIFICATION OF ELEMENTS :- Introduction; Historical Development of Periodic Classification; John Dalton's work; Dobereiner's Triads; Limitations; Newland's Law of Octaves; Limitations, Mendeleev's Periodic Table; Characteristics of Mendeleev's periodic table; Importance of Mendeleev's periodic Table; Systematic study of elements; Correction of doubtful atomic masses; Prediction of new elements; Position of noble gases; Limitations of Mendeleev's periodic Table Bio: OUR ENVIRONMENT:- Life processes(complete chapter)
MAT Daily Test 34	MAT: Number Series, Alphabetical & Alphanumeric Series, Venn Diagram, Coding and Decoding, Blood Relation, Non-Verbal (Analogy), Incomplete Figure
Mathematics Daily Test 34	Revision Test (Coordinate Geometry)
Science Daily Test 34	Phy: Revision Test (sources of energy complete) Chem: PERIODIC CLASSIFICATION OF ELEMENTS:- Modern Periodic Table; Modern periodic Law; Cause of periodicity; Characteristics of periodic table; Groups; Periods, Merits of Modern Periodic Table; Periodic/Atomic Properties; Factors that influence periodic properties; Nuclear charge; Screening or shielding effect Bio: Sustainable Management of Natural Resources (complete chapter)
MAT Daily Test 35	MAT: Number Series Alphabetical & Alphanumeric Series, Analogy, Coding & Decoding, Cubes & Dices, Venn Diagram, Water Image, Number and Alphabet Test
Mathematics Daily Test 35	INTRODUCTION TO TRIGONOMETRY :- Introduction; System of measurement of an angle; Sexagesimal system; Circular System; Centesimal System; Trigonometric ratios
Science Daily Test 35	Phy : Revision Test Light: Reflection and refraction Chem: PERIODIC CLASSIFICATION OF ELEMENTS:- Periodic Properties and their Trends in Periodic Table; Atomic Radius; Across a Period; Down the group; Ionic radius; Cationic radius; Anionic radius; Metallic and Non-metallic character; Variation in a period; Variation in a group Bio : Heredity and evolution
Mathematics Daily Test 36	INTRODUCTION TO TRIGONOMETRY:- Introduction; System of measurement of an angle; Sexagesimal system; Circular System; Centesimal System; Trigonometric ratios, Relation between different T-ratios; Reciprocal relations; Quotient relations; T-ratios of some angles ; T-ratios of complementary angles

DAILY PRACTICE TEST SCHEDULE & SYLLABUS

Test Name	Test Syllabus
Science Daily Test 36	<p>Phy: Revision Test(Electricity, Magnetic effects of electric current)</p> <p>Chem: PERIODIC CLASSIFICATION OF ELEMENTS:- Semi-metals or metalloids; Nature of oxides; Chemical Reactivity; Variation in a period; Variation in a group; Valency; Variation across a period; Variation down the group, Concept of Ionization Energy and Electron Affinities; Electro-negativity; Diagonal Relationship</p> <p>Bio: Reproduction(complete chapter)</p>
Mathematics Daily Test 37	INTRODUCTION TO TRIGONOMETRY :- Introduction; Trigonometric Identities (Pythagorean Identities); Problems on identities, SOME APPLICATIONS OF TROGONOMETRY:- Introduction; Basic concepts; Line of sight; Angle of elevation; Angle of depression;Problems on heights and distance
Mathematics Daily Test 38	Revision Test (Introduction to Trigonometry)
Mathematics Daily Test 39	CIRCLES:- Theorem: The lengths of two tangents drawn from an external point to a circle are equal.; Theorem: If two tangents are drawn to a circle from an external point, then; They subtend equal angles at the centre.; They are equally inclined to the line segment joining the centre to that point
Mathematics Daily Test 40	Circles: Properties of intersecting chords; Angles made by a tangent and a chord; Alternate segment theorem; Theorem: If a chord and a tangent intersect externally, then the product of the lengths of the segments of the chord is equal to the square of the length of the tangent from the point of contact to the point of intersection
Mathematics Daily Test 41	Construction : Introduction; Division of a line segment; To divide a line segment in the ratio $m : n$ (internally); Alternate method to divide a line segment internally in the ratio $m : n$
Mathematics Daily Test 42	CONSTRUCTIONS:- Construction of tangents to a circle; Construction of a tangent to a circle at a given point when its centre is known; Construction of tangent to a circle from a point outside the circle when the centre of the circle is known; Construction of tangent to a circle from an external point without using its centre
Mathematics Daily Test 43	Constructions
Mathematics Daily Test 44	AREAS RELATED TO CIRCLES:- Introduction; Perimeter and area of a circle: Brief review; Area of a circular ring; Perimeter and area of a semicircle; Perimeter and area of a quadrant of a circle
Mathematics Daily Test 45	AREAS RELATED TO CIRCLES:- Areas of parts of a circle; Sector, Segment, Areas of combination of plane figures
Mathematics Daily Test 46	Maths: Areas related to circles
Mathematics Daily Test 47	SURFACE AREAS AND VOLUMES:- Introduction; Brief review;; Cuboid; Cube; Solid cylinder; Hollow cylinder; Cone; Solid sphere; Spherical shell; Hemisphere; Hemispherical shell
Mathematics Daily Test 48	SURFACE AREAS AND VOLUMES:- Surface area and volume of combination of solids, Conversion of solids, rustum of a right circular cone; Volume of frustum; Curved surface area of a frustum; Total surface area of the frustum

DAILY PRACTICE TEST SCHEDULE & SYLLABUS

Test Name	Test Syllabus
Mathematics Daily Test 49	Maths: Surface Areas and Volumes
Mathematics Daily Test 50	STATISTICS :- Introduction; Mean; Mean of a grouped data; Direct method; Assumed mean method, Step deviation method; Merits & demerits of arithmetic mean; Problems discussion
Mathematics Daily Test 51	STATISTICS :- Cumulative frequency curve (or an Ogive); Less than Ogive; More than Ogive; Advantages of Ogive; Relative characteristics of Mean, Median & Mode discussion
Mathematics Daily Test 52	Maths: Statistics
Mathematics Daily Test 53	PROBABILITY :- Introduction; Probability: A theoretical approach; Definitions of various terms related to probability; Experiment; Random experiment; Trial; Outcomes; Sample space; Event; Elementary event; Compound event; Occurrence of an event; Equally likely outcomes of a random experiment; Complementary event
Mathematics Daily Test 54	PROBABILITY :- Relation between $P(A)$ and $P(\text{not } A)$; Problems related to Playing Cards
Mathematics Daily Test 55	Maths: Probability

Comprehensive Test Package (CTP) FOR CLASS - X

TEST	DATE	DAY	TOPIC
UT-1	12-Jun-2021	Saturday	Physics : Light-Reflection and Refraction
			Chemistry : Chemical Reactions and Equations, Acids, Bases and Salts
			Maths : Real Number, Polynomials, Pair of Linear Equations in Two Variables
UT-2	17-Jul-2021	Saturday	Physics : Human Eye and Colourful World, Electricity
			Biology : Life Processes
			Maths : Quadratic Equations, Arithmetic Progressions
PT-1	24-Jul-2021	Saturday	UT-1 & UT-2
UT-3	16-Aug-2021	Monday	Chemistry : Metals and Non-Metals
			Biology : Control and Coordination
			Maths : Triangles, Coordinate Geometry
CT-1	28-Aug-2021	Saturday	UT-1 & UT-3
UT-4	18-Sep-2021	Saturday	Physics : Magnetic Effects of Electric Current
			Biology : How do Organisms Reproduce?, Heredity and Evolution
			Maths : Introduction to Trigonometry, Some Applications of Trigonometry
UT-5	16-Oct-2021	Saturday	Physics : Sources of Energy
			Chemistry : Carbon and its Compounds
			Maths : Circles, Constructions, Areas Related to Circles

Comprehensive Test Package (CTP) FOR CLASS -X			
TEST	DATE	DAY	TOPIC
PT -2	30-Oct-2021	Saturday	UT-4 & UT-5
UT-6	15-Nov-2021	Monday	Chemistry : Periodic Classification of Elements
			Biology : Our Environment, Sustainable Management of Natural Resources
			Maths : Surface Areas & Volumes, Statistics, Probability
CT-2	27-Nov-2021	Saturday	UT-4 TO UT-6
FST-1	11-Dec-2021	Saturday	UT-1 TO UT-6
FST-2	27-Dec-2021	Monday	UT -1 TO UT-6

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

The Schedule for 2nd Year (Class XII) shall be provided in April, 2022



Thank You

ALL THE BEST FOR YOUR EXAMS!!