

Scholar's Package

Detailed Test Planner JEE-XII

Daily Practice Test Planner

Comprehensive Test Planner

All-in-one Planner

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XII-JEE (Main and Advance)

AAKASH TEST PLANNER – DAILY PRACTICE TEST SCHEDULE & SYLLABUS FOR CLASS XII (JEE)

Date	Test Name	Test Syllabus
10 May 2021	Physics Daily Test 1	Introduction, Electric charges, Conductors and insulators, Charging by induction, Charging by friction, Properties of electric charge, Coulomb's law, Vector form of coulomb's law, principle of superposition, forces between multiple charges.
11 May 2021	Chemistry Daily Test 1	Introduction : Three states of mater, Classification of solids : (i) Characteristic properties, (ii) Difference between crystalline and amorphous solids, (iii) Classification of crystalline solids; Structure of solids : (i) Basic definitions, (ii) Types of unit cells, Seven crystal systems and Bravais lattice, Calculation of effective number of particles in a unit cell.
12 May 2021	Mathematics Daily Test 1	Relation : Definition, Domain, Range, Total number of relations, Composition & inverse of relations, Types of relation, Reflexive, Symmetric, Transitive, Equivalence, Examples
13 May 2021	Physics Daily Test 2	Electric field, Electric field due to a point charge, superposition principle, Electric field due to a group of charges.
15 May 2021	Chemistry Daily Test 2	Elements of symmetry in cube : (i) Centre of symmetry, (ii) Plane of symmetry, (iii) Axis of symmetry, Close packed structures : (i) 1-D close packing, (ii) 2-D close packing, (iii) 3-D close packing, (AAA... type packing).
17 May 2021	Mathematics Daily Test 2	Function : Domain
18 May 2021	Physics Daily Test 3	Electric dipole, Dipole moment, Electric field due to an electric dipole on axial line, equatorial line and At any other point.
19 May 2021	Chemistry Daily Test 3	ABAB.....type packing, (i) hexagonal close packing, (ii) Cubic close packing and voids, Packing efficiency.
20 May 2021	Mathematics Daily Test 3	Range
21 May 2021	Physics Daily Test 4	Electric dipole in a uniform electric field, Potential energy associated with dipole, Dipole in non-uniform electric field, Dipole oscillation.
24 May 2021	Chemistry Daily Test 4	Radius ratio in ionic solids : r^+/r^- in voids; Density, Coordination number, Types of crystal structure : (i) AB type, (ii) AB ₂ and A ₂ B type, (iii) Spinel and inverse spinel structures; Effect of temperature and pressure.
25 May 2021	Mathematics Daily Test 4	Type of Functions : One-one, Many One, Onto, Into, Examples
26 May 2021	Physics Daily Test 5	Motion of a charged particle in uniform electric field, Electric field of a continuous charge distribution, volume, surface and linear charge distribution
27 May 2021	Chemistry Daily Test 5	Bragg's Law, Imperfection in solids : (i) Stoichiometric defects, (ii) Non-stoichiometric defects; Magnetic and electrical properties of solids
28 May 2021	Mathematics Daily Test 5	Composite Function, Inverse of a Function
31 May 2021	Physics Daily Test 6	Electric field due to a linear charge distribution like a straight rod, Electric field on the axis of a disk, ring and other cases of interest.
01 Jun 2021	Chemistry Daily Test 6	Introduction : (i) Basic definitions, (ii) Type of solutions; methods of expressing strength of solutions; Solubility : (i) Solid in liquid, (ii) Gas in liquid (with Henry's law), (iii) Liquid in liquid,
02 Jun 2021	Mathematics Daily Test 6	Even/odd Functions,

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Date	Test Name	Test Syllabus
03 Jun 2021	Physics Daily Test 7	Electric lines of force, properties of lines of force, lines of force due to a positive and negative point charge. Electric flux,
04 Jun 2021	Chemistry Daily Test 7	Vapour pressure of solution : (i) Factors affecting vapour pressure, (ii) Raoult's law, (iii) Ideal solutions. Non-ideal solutions, (iv) Classification of non-ideal solutions, Composition of vapour; Azeotropic mixture, Colligative properties : (i) Relative lowering of vapour pressure.
05 Jun 2021	Mathematics Daily Test 7	Periodic function
07 Jun 2021	Physics Daily Test 8	Gauss's Law and application, Calculating electric field using Gauss's law. Electric field due to a point charge, An infinite linear charge distribution, A hollow cylinder of charge, Charged solid cylinder
08 Jun 2021	Chemistry Daily Test 8	Non-ideal solutions, (iv) Classification of non-ideal solutions, Composition of vapour; Azeotropic mixture, Colligative properties : (i) Relative lowering of vapour pressure. (ii) Elevation in boiling point, (iii) Depression in freezing point, (iv) Osmotic pressure. van't Hoff factor and abnormal molecular mass : (i) Association of solute, (ii) Dissociation of solute
09 Jun 2021	Mathematics Daily Test 8	Binary Operation, Principal value, Graphical representation,
10 Jun 2021	Physics Daily Test 9	A shell of charge, Uniform sphere of charge, An infinite thin non conducting sheet.
11 Jun 2021	Chemistry Daily Test 9	Introduction ; Electrolytic conductance : (i) Conductors, (ii) Ohm's law, (iii) Resistance, (iv) Conductance, (v) Cell constant, (vi) Molar and equivalent conductance Variation of conductance with concentration, Kohlrausch's law and its application,
12 Jun 2021	Mathematics Daily Test 9	Properties of Inverse Trigonometric functions
14 Jun 2021	Physics Daily Test 10	Introduction, Electrostatic potential energy , Electrostatic potential energy of two and more point charges, Electrostatic potential, Potential difference, Potential due to a point charge, Potential due to system of charges
15 Jun 2021	Chemistry Daily Test 10	Conductometric titration (Pre-precipitation reaction, Strong acid - strong base reaction, Weak acid-weak base reaction, weak acid-strong reaction) Electrolysis : (i) Electrolytic cell, (ii) Product of electrolysis, (iii) Faraday's law of electrolysis
16 Jun 2021	Mathematics Daily Test 10	Converting one inverse function into another, example, Sum, difference formula of inverse function, Sum, difference formula of inverse function (cont.), Solution of inverse trigonometric equations.
17 Jun 2021	Physics Daily Test 11	Potential due to continuous charge distribution e.g., Uniformly charged disc/ring, Relation between electric field and potential Electric potential of an Annulus, Potential due to a spherical shell, Uniform sphere of charge, Infinite long linear charge.
18 Jun 2021	Chemistry Daily Test 11	Electrochemical cell : (i) Cell representation (ii) Working of a cell, (iii) Function of salt bridge, (iv) Electrode potential and emf of a cell Electrochemical series and its application; (i) Nernst's equation and its applications.

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Date	Test Name	Test Syllabus
19 Jun 2021	Mathematics Daily Test 11	Matrices : Introduction, Types of matrices Operations on Matrices- Equality of matrices, Algebra of matrices-Addition, Subtraction, Multiplication by scalar, matrix multiplication & Properties, Trace of a matrix, Transpose of a matrix ; Symmetric, Skew Symmetric, Elementary operations on matrices, Inverse using elementary operations
21 Jun 2021	Physics Daily Test 12	Equipotential surface, Equipotential surface due to a point charge and electric dipole, a long linear charge, Plane sheet of charge, Electrostatics of conductors : A conductor placed in electric field, A charged isolated conductor. Electric field near the surface of conductor, The role of sharp points on conducting surfaces. Conductor with cavity, Electrostatic pressure, Grounding of conductors, Dielectrics and polarisation
22 Jun 2021	Chemistry Daily Test 12	Equilibrium Constant, Concentration Cell Thermodynamic Relationship of a cell, Standard electrodes : Gas-gas ion electrode, Metal-metal ion electrode, Metal-metal insoluble electrodes, Redox electrode.
23 Jun 2021	Mathematics Daily Test 12	Determinants: Introduction: Determinants of matrix of order one, two, three, Properties of Determinant, Applications of Determinants- Areas, Minor and Co-factors.
24 Jun 2021	Physics Daily Test 13	Capacitor and Capacitance, Types of capacitors- Parallel plate Capacitor, spherical capacitor, Cylindrical capacitor, Charging of a capacitor, Energy stored in a capacitor.
25 Jun 2021	Chemistry Daily Test 13	Introduction ; Rates of chemical reaction: (i) Rate, (ii) Average and instantaneous rate, (iii) Law of mass action, (iv) Rate law or rate equation of a reaction, (v) units of rate of a reaction, Order and molecularity.
28 Jun 2021	Mathematics Daily Test 13	Adjoint of a matrix, Inverse of a matrix, Applications of Determinants and Matrices, Solution of equations- Using Inverse and Cramer's rule.
29 Jun 2021	Physics Daily Test 14	Force between the plates of a parallel plate capacitor, Grouping of capacitors, Capacitors with dielectrics,
30 Jun 2021	Chemistry Daily Test 14	Integrated rate law : (i) Zero order, (ii) First order, (iii) Half-life (iv) nth order, Graphical method. Numericals on some first order reactions : (i) In terms of concentrations, (ii) in terms of pressure, (iii) in terms of volumetric analysis, (iv) in terms of optical rotation;
01 Jul 2021	Mathematics Daily Test 14	Limits, Indeterminate forms, Evaluation of limit, L' Hospital rule
02 Jul 2021	Physics Daily Test 15	Sharing of charge and common potential, Laws for solving complex circuits of capacitors, Van De Graff Generator
05 Jul 2021	Chemistry Daily Test 15	Order of reaction from reaction mechanism, Parallel reaction Factors affecting rate of a chemical reaction : (i) Concentration of reactant, (ii) Nature of reactant and product, (iii) Exposure to radiation (photochemical reactions), (iv) Temperature (Arrhenius equation), (v) Catalyst, (vi) Surface area
06 Jul 2021	Mathematics Daily Test 15	Continuity, Definition, Examples, Differentiability : Definition, LHD, RHD
07 Jul 2021	Physics Daily Test 16	Current Electricity: Introduction, Electric current, Electric current in conductors, Ohm's law , Factors affecting resistance of a conductor. Resistor colour codes, Temperature dependence of resistivity, Current density and electric field, Drift of electrons and the origin of resistivity, mobility, limitations of Ohm's law, Calculating resistance for different shapes, Electrical energy, Power

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Date	Test Name	Test Syllabus
08 Jul 2021	Chemistry Daily Test 16	Nuclear chemistry : (i) Properties of α -, β -, γ - rays, (ii) Group displacement law, (iii) Nuclear stability, (iv) Rate of radioactive decay, (v) Types of nuclear reactions, (vi) Radio-carbon dating
09 Jul 2021	Mathematics Daily Test 16	Chain rule, Differentiation of composite, Implicit, Inverse Trigonometric function. Differentiation of logarithmic, Parametric forms,
12 Jul 2021	Physics Daily Test 17	Combination of resistors, Cells, emf and internal resistance of a cell, Maximum power transfer theorem, Cells in series and parallel, Kirchoff's laws.
13 Jul 2021	Chemistry Daily Test 17	Introduction, Adsorption : (i) Some basic definitions, Distinction between adsorption and absorption, (ii) Mechanism, (iii) Types of adsorption, Characteristic of adsorption. (i) Freundlich Isotherm and Langmuir isotherm, (ii) Application, (iii) Catalyst, (iv) Enzymes Catalysis
14 Jul 2021	Mathematics Daily Test 17	2nd Order derivative, Rolle's theorem, LMVT, Examples. Functional equations and assignment discussion.
15 Jul 2021	Physics Daily Test 18	Earthing or grounding in an electric circuit. Wheatstone bridge, Equivalent resistance of complex networks.
16 Jul 2021	Chemistry Daily Test 18	Colloidal system; (i) Particle size and colloidal state, (ii) Classification of colloidal system. Colloid : (i) Preparation, (ii) Properties, (iii) Purification, (iv) Emulsion (v) Application of colloid
17 Jul 2021	Mathematics Daily Test 18	Applications of Derivatives: Derivative as rate measurer - Rate of change of quantities, Marginal rate, related rates, Equation of tangent & Normal, Length of tangent, Normal, Sub-tangent, Subnormal, Angle between two curves, Examples
19 Jul 2021	Physics Daily Test 19	Metering circuits, Galvanometer, Ammeter, Conversion of galvanometer to ammeter, Voltmeter, Conversion of galvanometer to voltmeter.
20 Jul 2021	Chemistry Daily Test 19	Introduction : Occurrence, Important ores and minerals; Metallurgical process : (i) Crushing, (ii) Concentration, (iii) Calcination and roasting, (iv) Reduction. Thermodynamic principles of metallurgy: Ellingham diagram,
22 Jul 2021	Mathematics Daily Test 19	Errors and approximation, Monotonicity - Increasing and Decreasing function
23 Jul 2021	Physics Daily Test 20	Error in the measurement by ammeter/voltmeter. Meter bridge, potentiometer application of potentiometer, Sensitivity of potentiometer.
26 Jul 2021	Chemistry Daily Test 20	Purification. Extractive metallurgy of (i) Iron, (ii) Tin, (iii) Copper, (iv) Lead, (v) Magnesium, (vi) Aluminium, (vii) Silver, (viii) Zinc
27 Jul 2021	Mathematics Daily Test 20	Definition of local maxima & minima, Absolute maxima & minima First order Derivative test, Second order derivative Test
28 Jul 2021	Physics Daily Test 21	R-C circuit, Steady state R-C circuit, Transient R-C circuit, Charging and discharging of a capacitor through resistance. Complex RC circuit.
29 Jul 2021	Chemistry Daily Test 21	Physical properties of group - 15, Anomalous behaviour of nitrogen, Chemical properties and trends in chemical reactivity, Dinitrogen
30 Jul 2021	Mathematics Daily Test 21	Word problem on Maxima & Minima
31 Jul 2021	Physics Daily Test 22	Introduction, Magnetic force (Lorentz force), Direction of magnetic force (Fleming's left hand rule), Properties of magnetic force on charge.

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02 Aug 2021	Chemistry Daily Test 22	Ammonia, Oxides of nitrogen, nitric acid, allotropes of phosphorus, Compounds of phosphorus (PH ₃ , PCl ₃ , PCl ₅ , oxoacids of Phosphorus)
03 Aug 2021	Mathematics Daily Test 22	Integrals: Indefinite Integrals Introduction basic concepts, Standard result, Algebra of Integration, Methods of integrations, Integration by substitution
04 Aug 2021	Physics Daily Test 23	Magnetic field due to a current element (Biot-savart law), Magnetic field Surrounding a thin straight current carrying conductor,
05 Aug 2021	Chemistry Daily Test 23	Physical and chemical properties of 16th group elements, Dioxygen (Preparation and properties), oxides, ozone, Allotropes of S, Compounds of S (oxoacids, H ₂ S, SO ₂ , SO ₃ , Na ₂ S ₂ O ₃ .5H ₂ O)
06 Aug 2021	Mathematics Daily Test 23	Integration using trigonometric identities. Integration of some particular functions.
07 Aug 2021	Physics Daily Test 24	Magnetic field due to a loop of current on its axial point at centre. Magnetic field due to an arc at its centre. Magnetic field due to different combined structures.
09 Aug 2021	Chemistry Daily Test 24	Physical and chemical properties of 17th group F ₂ , Cl ₂ , Br ₂ and I ₂ . (Preparation and properties)
10 Aug 2021	Mathematics Daily Test 24	Partial fraction, Integration by parts, Special Integral of Type:
11 Aug 2021	Physics Daily Test 25	Ampere's circuital law. Applications of Ampere's law (a) magnetic field due to a straight infinite current carrying wire. (b) Magnetic field inside a long straight current carrying conductor, (c) Magnetic field inside a hollow straight current carrying conductor, (d) Magnetic field due to an infinite plane sheet of current, (e) Magnetic field due to a long solenoid, (f) Magnetic field of a toroid.
12 Aug 2021	Chemistry Daily Test 25	HX, Oxoacids of halogens bleaching powder, Interhalogen compounds, Pseudohalogens. Physical properties of 18th group elements, Compound of Xe.
13 Aug 2021	Mathematics Daily Test 25	Integration of Irrational function Reduction formula problem discussion
14 Aug 2021	Physics Daily Test 26	Magnetic force on a current carrying conductor. Force between two parallel current carrying wires. Force between two perpendicular current carrying wires.
17 Aug 2021	Chemistry Daily Test 26	Introduction : General characteristics of transition elements : (i) Electronic configuration, (ii) Variation in atomic and ionic size, (iii) Ionization enthalpy, (iv) Oxidation state, (v) Electrode potential, (vi) Colour, (vii) Catalytic property, (viii) Formation of complex and interstitial compounds, (ix) Magnetic properties, Alloys. Some important compounds : (i) Potassium dichromate, (ii) Potassium permanganate,
18 Aug 2021	Mathematics Daily Test 26	Introduction- Evaluation of integrals by substitution
19 Aug 2021	Physics Daily Test 27	Motion of charged particle in a Magnetic field, when (a) $q = 0^\circ$, 180° straight line, (b) $q = 90^\circ$, circular path, finding r, T, F, (c) $q \neq 0^\circ$, 90° , 180° , Helix. Finding radius, pitch T, (d) Deviation of charged particle in a magnetic field, (e) Time spent by a charged particle in magnetic field.

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Date	Test Name	Test Syllabus
20 Aug 2021	Chemistry Daily Test 27	(iii) Silver nitrate, (iv) Ag ₂ O, (v) Ag ₂ S ₂ O ₃ , (iv) White vitriol, ZnCl ₂ , Blue vitriol, CuO, CuCl ₂ .2H ₂ O, FeO, Green vitriol, (v) Ferric chloride, The inner transition elements (f-block) : General properties of Lanthanoids and actinoids
21 Aug 2021	Mathematics Daily Test 27	Properties of definite integrals, Estimation of integrals, Gamma Function Reduction formula, Definite integral as the limit of a sum, Miscellaneous Problem
23 Aug 2021	Physics Daily Test 28	Motion of charged particle in combined electric and magnetic fields. (a) V, E and B all parallel to each other, (b) V, E and B all perpendicular to each other, (c) E is parallel to B and particle velocity is perpendicular to both these fields.
24 Aug 2021	Chemistry Daily Test 28	Co-ordination Compounds:-Important definitions, HSAB principle, Classification of ligands. IUPAC Naming, Isomerism (Including stereoisomerism)
25 Aug 2021	Mathematics Daily Test 28	Introduction, Area under simple curve, Curve sketching. Area under the curves, Miscellaneous Problem and assignment discussion.
26 Aug 2021	Physics Daily Test 29	Cyclotron, Current loop as a magnetic dipole, Torque on a current loop in a uniform magnetic field. The magnetic dipole moment of revolving electron. The moving coil galvanometer.
27 Aug 2021	Chemistry Daily Test 29	Werner theory, Effective atomic number, VBT, CFT, Colours of complex, organometallic, Stability of complex (Including factor affecting stability), Application of complexes.
30 Aug 2021	Mathematics Daily Test 29	Introduction: Order Degree of differential equation, Examples, Formation of a differential equation.
31 Aug 2021	Physics Daily Test 30	Bar Magnet, Magnetic Field Lines, Pole strength, Bar magnet as an equivalent solenoid, Magnetic dipole moment of a bar magnet. Magnetic field due to a bar magnet (a) On axial position, (b) On normal bisector. Dipole in uniform magnetic field. Torque on a magnetic dipole in uniform magnetic field. Workdone in rotating dipole in uniform magnetic field. Potential energy of dipole in uniform magnetic field. Tangent law. Deflection galvanometer.
01 Sep 2021	Chemistry Daily Test 30	Physical analysis; Microcosmic bead test, Na ₂ CO ₃ bead test, Dry test : (i) Flame test, (ii) Borax-bead test. Analysis of acid radicals : CO ₃ ²⁻ , CH ₃ COO ⁻ , NO ₂ ⁻ , NO ₃ ⁻ , SO ₃ ²⁻ , S ²⁻ , Cl ⁻ , Br ⁻ , I ⁻ , F ⁻ , BO ₃ ³⁻ , SO ₄ ²⁻ , PO ₄ ³⁻ ,
03 Sep 2021	Mathematics Daily Test 30	Methods of solving differential equation variable separable. Homogeneous differential equation. Reducible to homogeneous differential equation,
06 Sep 2021	Physics Daily Test 31	Gauss's law, Earth's Magnetism, Geographic meridian, Magnetic meridian, Magnetic Declination and dip. Horizontal and vertical component of earth magnetic field. Relation between horizontal component, Vertical component and angle of dip. Magnetization and Magnetic Intensity, Magnetic Susceptibility, Magnetic Permeability, Relative permeability. Magnetic properties of material (a) Diamagnetism (b) paramagnetism (c) ferromagnetism (d) Hysteresis (e) Curie's law. Hard and soft magnets. Permanent magnet and Electromagnets.
07 Sep 2021	Chemistry Daily Test 31	Analysis of basic radicals : Ag ⁺ , Pb ²⁺ , Hg ₂ ²⁺ , Hg ²⁺ , Cu ²⁺ , Cd ²⁺ , Bi ³⁺ , As ³⁺ ,
08 Sep 2021	Mathematics Daily Test 31	Linear differential equation, Bernoulli's equation, Inspection method, Orthogonal trajectory examples

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09 Sep 2021	Physics Daily Test 32	Introduction, The experiments of Faraday and Henry. Magnetic flux. Faraday's law of induction, Lenz's law. Lenz's law and conservation of energy. Methods to change the magnetic flux. Induced emf, induced current and induced charge in different cases.
10 Sep 2021	Chemistry Daily Test 32	Analysis of basic radicals : Sn^{2+} , Sb^{3+} , Fe^{+3} , Al^{+3} , Cr^{+3} , Ni^{+2} , Co^{+2} , Zn^{+2} , Mn^{+2} , Ba^{2+} , Ca^{2+} , Sr^{2+} , Mg^{2+} , NH_4^+ .
11 Sep 2021	Mathematics Daily Test 32	Introduction : Types of vectors, Addition of Vectors and Properties, Multiplication by Scalar, Components of Vector, Section Formula, Dot product of two vectors
13 Sep 2021	Physics Daily Test 33	Field induction, induced electric field. Induced electric field in a cylindrical region. Examples based on calculation of emf induced in rods placed in various positions in the cylindrical region, Motional emf in a straight conductor, effective length concept. Energy consideration. Eddy current, Electromagnetic damping, DC motor
14 Sep 2021	Chemistry Daily Test 33	General Organic Chemistry
15 Sep 2021	Mathematics Daily Test 33	Cross Product of two vectors, Scalar Triple product, Volume of parallelepiped, Tetrahedron, Examples
16 Sep 2021	Physics Daily Test 34	Inductance and inductor, Self inductance, Potential difference across an inductor, energy stored in an inductor, energy density. Grouping of Inductors,
17 Sep 2021	Chemistry Daily Test 34	Haloalkanes and Haloarenes : Introduction, Classification, IUPAC nomenclature, Preparation of haloalkanes from alcohols, from hydrocarbons, halogen exchange; from Arenes and from Diazonium salt.
20 Sep 2021	Mathematics Daily Test 34	Vector triple product and its application, Solution of vector equation
21 Sep 2021	Physics Daily Test 35	Mutual inductance, Calculation of mutual inductance for two coils. Mutual inductance of a solenoid surrounded by a coil. Coefficient of coupling. Combination of inductances by taking into account their mutual inductance.
22 Sep 2021	Chemistry Daily Test 35	Physical and chemical properties of haloalkanes Ambident nucleophiles. Stereochemical aspects of nucleophilic substitution reactions – Optical isomerism, specific rotation, chiral carbon, elements of symmetry, enantiomers, diastereomers, relative and absolute configuration.
23 Sep 2021	Mathematics Daily Test 35	Introduction, Direction cosines, direction ratios, vector and Cartesian equation of a line in space, Angle between two lines, Skew lines, Shortest distance between skew lines and parallel lines
24 Sep 2021	Physics Daily Test 36	L-R circuit (growth of current and decay of current) steady state LR circuit, steady state LCR- circuits. Current in various branches just after closing and just after opening the switch. Time constant of complex LR circuits, AC generator, Migration of birds.
25 Sep 2021	Chemistry Daily Test 36	Mechanism of SN_1 , SN_2 , E_1 and E_2 reactions Reactions of Haloarenes : Nucleophilic substitution, Electrophilic substitution, Reaction with metals; polyhalogen compounds.
27 Sep 2021	Mathematics Daily Test 36	Plane : Introduction, Various equations of the plane, Family of planes, Coplanar lines, angle between planes
28 Sep 2021	Physics Daily Test 37	Alternating current and emf, Mean value for half cycle of AC, Root mean square value of AC, Phasor diagram, Hot wire instrument, AC voltage applied to a resistor, Inductor and capacitor. AC through an L-R circuit, AC through an R-C circuit.

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29 Sep 2021	Chemistry Daily Test 37	Alcohols and phenols : Introduction, Classification, Nomenclature, Structure of functional group, Preparation of alcohols, Preparation of phenol
30 Sep 2021	Mathematics Daily Test 37	Plane and line– Angle, Distance of a point from a plane and from a line. Image of a point with respect to a plane
01 Oct 2021	Physics Daily Test 38	AC voltage applied to a series LCR circuit, Resonance, sharpness of resonance, Parallel resonance circuit, Power in AC circuit (the power factor) Choke coil, LC oscillation, Transformer
05 Oct 2021	Chemistry Daily Test 38	Preparation of phenol, Physical properties of alcohols and phenols, Chemical properties of alcohols Chemical reactions of phenol – Nitration, halogenation, sulphonation; Kolbe's reaction, Reimer Tieman reaction, reduction, oxidation, Claisen rearrangement. Coupling reaction of phenol
06 Oct 2021	Mathematics Daily Test 38	Basics of probability, Problem on P & C, Introduction, Conditional Probability, multiplication theorem on probability
07 Oct 2021	Physics Daily Test 39	Introduction, Ampere circuital law and its contradiction, Displacement current, Consequences of displacement current, Maxwell equation, Sources of electromagnetic waves, Relation between Electric field, Magnetic Field and speed of light, Intensity of electromagnetic waves; Intensity due to a point source, Electromagnetic Spectrum.
08 Oct 2021	Chemistry Daily Test 39	Ethers : Classification, naming and preparation of ethers, Chemical reactions of ethers, Electrophilic substitution of aryl ethers, Preparation of epoxides, Reactions of epoxides
11 Oct 2021	Mathematics Daily Test 39	Independent events, Total probability : Examples, Bayes' theorem
12 Oct 2021	Physics Daily Test 40	Concept of rays; Laws of reflection; Plane mirrors; (reflection from plane surface); Number of images due to two inclined mirrors;
13 Oct 2021	Chemistry Daily Test 40	Aldehydes and Ketones : Introduction, Nomenclature and structure, Preparation of aldehydes and ketones from alcohols, hydrocarbons, acid halides cyanides, esters and carboxylic acids, Preparations of aromatic aldehydes and ketones
14 Oct 2021	Mathematics Daily Test 40	Bayes' theorem continued, Probability distribution of a random variable, Mean & Variance of distribution, Binomial Distribution
16 Oct 2021	Physics Daily Test 41	Reflection from curved surface; spherical Mirror equation; (graph) ; Magnification ; (lateral as well as longitudinal); speed of image.
18 Oct 2021	Chemistry Daily Test 41	Physical properties of aldehydes and ketones, Chemical reactions – Nucleophilic addition of HCN, NaHSO ₃ , Grignard's reagent, alcohols and ammonia derivatives
19 Oct 2021	Physics Daily Test 42	Refraction at plane surface, laws of refraction; Apparent depth; Total internal reflection; (critical angle); Shift due to a slab, Refraction from spherical surfaces; Refraction from single spherical surface;
20 Oct 2021	Chemistry Daily Test 42	Reduction reactions : Reduction to alcohols; reduction to hydrocarbons, Oxidation reactions by Tollen's reagent and Fehling solution; Haloform reaction; Baeyer-Viliger oxidation,

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21 Oct 2021	Physics Daily Test 43	Lenses; Lens - maker's formula; Lenses; Lens formula, Magnification of image due to lens, Lens Constant.; Displacement method.
22 Oct 2021	Chemistry Daily Test 43	Reaction due to α -hydrogen : Aldol condensation; Cannizzaro reaction Electrophilic substitution of aromatic carbonyl compounds, Perkin reaction, Pinnacol – Pinnacolone rearrangement, Beckmann rearrangement, Carboxylic acids : Nomenclature and structure of carboxyl group, Preparation of carboxylic acids, Physical properties
25 Oct 2021	Physics Daily Test 44	Power of a lens; Power of a combination of thin lenses in contact; Prism; Expression for deviation due to prism; Deviation due to thin prism;
26 Oct 2021	Chemistry Daily Test 44	Chemical reactions : Acidic strength, formation of acid halides, esters, anhydrides and amides; Decarboxylation and HVZ reaction,
27 Oct 2021	Physics Daily Test 45	Dispersion and deviation due to prism, dispersive power; Optical Instruments; Simple microscope; Compound microscope; Telescope.
28 Oct 2021	Chemistry Daily Test 45	Derivatives of carboxylic acid : Preparation and properties of acid halides, anhydrides, esters and amides
29 Oct 2021	Physics Daily Test 46	Wave Optics; Concept of wavefront and ray; Huygen's construction; Explanation of laws of reflection and refraction; Coherent and Incoherent source of light, Interference of light – Mathematical analysis, Young's Double slit experiment, Shape of fringes on screen, fringe-width;
30 Oct 2021	Chemistry Daily Test 46	Amines : Structure, Classification, Preparation : Reduction of nitro compounds, cyanides, isocyanides and amides; Gabriel phthalimide synthesis; Hoffman bromamide reaction, Physical properties Chemical reactions : Basic character of primary, secondary, tertiary aliphatic and aromatic amines;
01 Nov 2021	Physics Daily Test 47	Diffraction, Resolving power of optical instruments, validity of ray optics, Polarization, Intensity of transmitted light, Law of Malus, Brewster's Law
02 Nov 2021	Chemistry Daily Test 47	alkylation and acylation of amines, Carbylamine reaction, Reaction with HNO_2 , Hinsberg test Electrophilic substitution of aromatic amines, Diazonium salts, Preparation, physical properties and chemical reactions of diazonium salts, Coupling reaction with phenol and aniline
03 Nov 2021	Physics Daily Test 48	Dual Nature of radiation and Matter; Photoelectric effect; Radiation pressures; (when light falls normally / obliquely) ; Matter - waves and de-Broglie wave-length ; Davisson – Germer experiment, Compton effect
05 Nov 2021	Chemistry Daily Test 48	Carbohydrates : Classification, Glucose-preparation and structure, Reaction with phenyl hydrazine, Cyclic structure of glucose, Disaccharides Starch and cellulose

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06 Nov 2021	Physics Daily Test 49	Atomic structure; Bohr's model; Line spectra of hydrogen atom, Atomic excitation due to collision, X-rays; Characteristic and continuous X-rays; Minimum wavelength of continuous X-rays, Moseley's law.
08 Nov 2021	Chemistry Daily Test 49	Proteins : Amino acids – Nomenclature and classification; Isoelectric point, Peptides and polypeptides, Structure of proteins, Enzymes, Vitamins, Nucleic acids
09 Nov 2021	Physics Daily Test 50	Nucleus; Nuclear binding energy and examples on its calculation; Mass defect; Packing fraction; Nuclear reactions; α , β , γ – decays, Natural Radioactivity and Law of radioactive decay; Successive disintegration and radioactive equilibrium; Problems based on nuclear collisions and reactions
10 Nov 2021	Chemistry Daily Test 50	Polymers : Introduction, Classification, Types of polymerization – Addition and condensation, Copolymerisation, Rubber-Natural and synthetic; Vulcanization of rubber, Average molecular mass, Biodegradable polymers
11 Nov 2021	Physics Daily Test 51	Semiconductors, Intrinsic semiconductors, Extrinsic Semiconductors, PN Junction Diode, Application of Junction Diode as a rectifier, Special purpose PN Junction Diode Junction Transistor, Transistor as a device(Switch, Amplifier and oscillator), Digital electronics and logic gates; Communication Systems, Elements of communication system; modulation and its necessity, Amplitude modulation, Different communication system.
12 Nov 2021	Physics Daily Test 52	Experiments based on vernier callipers, Screw Gauge, Determination of Young's modulus by searl's method and determination of focal length.

XII-JEE (Main and Advance)

COMPREHENSIVE TEST PACKAGE (XII STUDYING)

ONLINE TEST SCHEDULE

Date	Day	Test No.	Details
22.05.2021	Saturday	UT -1 (Main)	Physics - Physical World, Units & Measurements, Motion in a Straight Line, Motion in a Plane. Chemistry - Some Basic Concepts of Chemistry, Structure of Atom, Classification of Elements and Periodicity in Properties Maths - Basics of Mathematics, Relations and Functions, Trigonometric Functions-I: (Trigonometric Ratios and Identities, Transformation Formulae, Trigonometric Equations(Level-I),)
29.05.2021	Saturday	UT -2 (Main)	Physics - Electric Charges and Field, Electrostatic Potential and Capacitance Chemistry - The Solid State, Solution, Electrochemistry Maths -Relations and Functions, Inverse Trigonometric Functions
12.06.2021	Saturday	UT -3 (Main)	Physics - Laws of Motion, Work, Energy and Power Chemistry - Chemical Bonding and Molecular Structure, States of Matter Maths -Principle of Mathematical Induction, Quadratic Equations, Complex Numbers-I : (Algebra of Complex Numbers, Modulus & conjugate of a Complex Number, Polar form), Linear Inequalities
26.06.2021	Saturday	PT -1 (Adv)	Test on Topics covered in Unit Test -1 to Unit Test -3
03.07.2021	Saturday	UT -4 (Main)	Physics -Current Electricity, Moving Charges & Magnetism, Magnetism and Matter Chemistry - Chemical Kinetics, Surface Chemistry, General Principles & Processes of Isolation of Elements Maths -Matrices and Determinants
10.07.2021	Saturday	UT -5 (Main)	Physics - System of Particles and Rotational Motion, Gravitation Chemistry - Thermodynamics, Equilibrium, Redox Reactions Maths - Sequences and Series, Binomial Theorem, Permutations and Combinations
24.07.2021	Saturday	UT -6 (Main)	Physics - Mechanical Properties of Solids, Mechanical Properties of Fluids Chemistry - Hydrogen, The s-Block Elements, The p-Block Elements(class XI) Maths - Straight Lines (Including Pair of Straight Lines), Conic Sections-I (Circle), Conic Sections-II (Parabola, Ellipse & Hyperbola)
16.08.2021	Monday	PT-2 (Adv)	Test on Topics covered in Unit Test -4 to Unit Test -6
28.08.2021	Saturday	CT-1 (M&A)	Test on Topics covered in Unit Test -1 to Unit Test -6

XII-JEE (Main and Advance)

COMPREHENSIVE TEST PACKAGE (XII STUDYING)

ONLINE TEST SCHEDULE

Date	Day	Test No.	Details
04.09.2021	Saturday	UT -7 (Main)	Physics - Electromagnetic Induction, Alternating Current, Electromagnetic Waves Chemistry - The p-Block Elements(class XII), The d & f-Block Elements, Coordination Compounds, Qualitative Analysis Maths - Continuity and Differentiability, Applications of Derivatives
18.09.2021	Saturday	UT -8 (Main)	Physics - Thermal Properties of Matter, Thermodynamics, Kinetic Theory of Gases Chemistry - Organic Chemistry - Some Basic Principles and Techniques Maths - Complex Numbers-II(Including Geometrical Applications), Introduction to Three Dimensional Geometry, Limits and Derivatives, Mathematical Reasoning
04.10.2021	Monday	UT -9 (Main)	Physics - Oscillations, Waves Chemistry - Hydrocarbons, Environmental Chemistry Maths - Statistics, Probability, Trigonometric Functions -II: (Trigonometric Ratios & Identities, Transformation Formulae, Trigonometric Equations (Level-II), Heights & Distances, Properties of Triangle)
09.10.2021	Saturday	PT -3 (Adv)	Test on Topics covered in Unit Test -7 to Unit Test -9
23.10.2021	Saturday	UT -10 (Main)	Physics - Ray Optics and Optical Instruments, Wave Optics Chemistry - Haloalkanes and Haloarenes, Alcohols, Phenols and Ethers Maths - Integrals (Indefinite and Definite), Applications of Integrals
13.11.2021	Saturday	UT -11 (Main)	Physics - Dual Nature of Radiation and Matter, Atoms, Nuclei Chemistry - Aldehydes, Ketones and Carboxylic Acids, Amines Maths - Differential Equations, Vector
27.11.2021	Saturday	UT -12 (Main)	Physics - Semiconductor Electronics : Materials, Devices and Simple Circuits, Communication Systems, Experimental Physics Chemistry - Biomolecules, Polymers, Chemistry in Everyday life Maths - Three Dimensional Geometry, Linear Programming, Probability
04.12.2021	Saturday	PT -4 (Adv)	Test on Topics covered in Unit Test -10 to Unit Test -12

XII-JEE (Main and Advance)

COMPREHENSIVE TEST PACKAGE (XII STUDYING)

ONLINE TEST SCHEDULE

Date	Day	Test No.	Details
11.12.2021	Saturday	CT-2 (M&A)	Test on Topics covered in Unit Test -7 to Unit Test -12
22.12.2021	Wednesday	FST-1	Complete Syllabus Test - Based on JEE (Main) Pattern (Class XI & XII)
29.12.2021	Wednesday	FST-2	Complete Syllabus Test - Based on JEE (Main) Pattern (Class XI & XII)
05.01.2022	Wednesday	FST-3	Complete Syllabus Test - Based on JEE (Main) Pattern (Class XI & XII)
12.01.2022	Wednesday	FST-4	Complete Syllabus Test - Based on JEE (Main) Pattern (Class XI & XII)

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

JEE-XII CALENDAR 2021-2022 (All-in-one Planner)

May'21			Jun'21			Jul'21			Aug'21			Sep'21			Oct'21		
1	Sa		1	Tu	DPT - C6	1	Th	DPT - M14	1	Su		1	We	DPT - C30	1	Fr	DPT - P38
2	Su		2	We	DPT - M6	2	Fr	DPT - P15	2	Mo	DPT - C22	2	Th	SBT-1 (HA)	2	Sa	Gandhi Jayanti
3	Mo		3	Th	DPT - P7	3	Sa	UT-4 (M)	3	Tu	DPT - M22	3	Fr	DPT - M30	3	Su	
4	Tu		4	Fr	DPT - C7	4	Su		4	We	DPT - P23	4	Sa	UT-7 (M)	4	Mo	UT-9 (M)
5	We		5	Sa	DPT - M7	5	Mo	DPT - C15	5	Th	DPT - C23	5	Su		5	Tu	DPT - C38
6	Th		6	Su		6	Tu	DPT - M15	6	Fr	DPT - M23	6	Mo	DPT - P31	6	We	DPT - M38
7	Fr		7	Mo	DPT - P8	7	We	DPT - P16	7	Sa	DPT - P24	7	Tu	DPT - C31	7	Th	DPT - P39
8	Sa		8	Tu	DPT - C8	8	Th	DPT - C16	8	Su		8	We	DPT - M31	8	Fr	DPT - C39
9	Su		9	We	DPT - M8	9	Fr	DPT - M16	9	Mo	DPT - C24	9	Th	DPT - P32	9	Sa	PT-3 (A)
10	Mo	DPT - P1	10	Th	DPT - P9	10	Sa	UT-5 (M)	10	Tu	DPT - M24	10	Fr	DPT - C32	10	Su	
11	Tu	DPT - C1	11	Fr	DPT - C9	11	Su		11	We	DPT - P25	11	Sa	DPT - M32	11	Mo	DPT - M39
12	We	DPT - M1	12	Sa	DPT - M9	12	Mo	DPT - P17	12	Th	DPT - C25	12	Su		12	Tu	DPT - P40
13	Th	DPT - P2	13	Su		13	Tu	DPT - C17	13	Fr	DPT - M25	13	Mo	DPT - P33	13	We	DPT - C40
14	Fr	Eid al-Fitr	14	Mo	DPT - P10	14	We	DPT - M17	14	Sa	DPT - P26	14	Tu	DPT - C33	14	Th	DPT - M40
15	Sa	DPT - C2	15	Tu	DPT - C10	15	Th	DPT - P18	15	Su	Independence Day	15	We	DPT - M33	15	Fr	Dussehra
16	Su		16	We	DPT - M10	16	Fr	DPT - C18	16	Mo	PT-2 (A)	16	Th	DPT - P34	16	Sa	DPT - P41
17	Mo	DPT - M2	17	Th	DPT - P11	17	Sa	DPT - M18	17	Tu	DPT - C26	17	Fr	DPT - C34	17	Su	
18	Tu	DPT - P3	18	Fr	DPT - C11	18	Su		18	We	DPT - M26	18	Sa	UT-8 (M)	18	Mo	DPT - C41
19	We	DPT - C3	19	Sa	DPT - M11	19	Mo	DPT - P19	19	Th	DPT - P27	19	Su		19	Tu	DPT - P42
20	Th	DPT - M3	20	Su		20	Tu	DPT - C19	20	Fr	DPT - C27	20	Mo	DPT - M34	20	We	DPT - C42
21	Fr	DPT - P4	21	Mo	DPT - P12	21	We	Eid al-Adha	21	Sa	DPT - M27	21	Tu	DPT - P35	21	Th	DPT - P43
22	Sa	UT-1 (M)	22	Tu	DPT - C12	22	Th	DPT - M19	22	Su		22	We	DPT - C35	22	Fr	DPT - C43
23	Su		23	We	DPT - M12	23	Fr	DPT - P20	23	Mo	DPT - P28	23	Th	DPT - M35	23	Sa	UT-10 (M)
24	Mo	DPT - C4	24	Th	DPT - P13	24	Sa	UT-6 (M)	24	Tu	DPT - C28	24	Fr	DPT - P36	24	Su	
25	Tu	DPT - M4	25	Fr	DPT - C13	25	Su		25	We	DPT - M28	25	Sa	DPT - C36	25	Mo	DPT - P44
26	We	DPT - P5	26	Sa	UT-3 (M) & PT-1 (A)	26	Mo	DPT - C20	26	Th	DPT - P29	26	Su		26	Tu	DPT - C44
27	Th	DPT - C5	27	Su		27	Tu	DPT - M20	27	Fr	DPT - C29	27	Mo	DPT - M36	27	We	DPT - P45
28	Fr	DPT - M5	28	Mo	DPT - M13	28	We	DPT - P21	28	Sa	CT-1(M&A)	28	Tu	DPT - P37	28	Th	DPT - C45
29	Sa	UT-2 (M)	29	Tu	DPT - P14	29	Th	DPT - C21	29	Su		29	We	DPT - C37	29	Fr	DPT - P46
30	Su		30	We	DPT - C14	30	Fr	DPT - M21	30	Mo	DPT - M29	30	Th	DPT - M37	30	Sa	DPT - C46
31	Mo	DPT - P6				31	Sa	DPT - P22	31	Tu	DPT - P30				31	Su	

JEE-XII CALENDAR 2021-2022 (All-in-one Planner)

Nov'21			Dec'21			Jan'22			Feb'22			Mar'22			Apr'22		
1	Mo	DPT - P47	1	We		1	Sa		1	Tu		1	Tu		1	Fr	
2	Tu	DPT - C47	2	Th		2	Su		2	We		2	We		2	Sa	
3	We	DPT - P48	3	Fr		3	Mo		3	Th		3	Th		3	Su	
4	Th	Diwali	4	Sa	PT-4(A) & SBT-2(HA)	4	Tu		4	Fr		4	Fr		4	Mo	
5	Fr	DPT - C48	5	Su		5	We	FST-3	5	Sa		5	Sa		5	Tu	
6	Sa	DPT - P49	6	Mo		6	Th		6	Su		6	Su		6	We	
7	Su		7	Tu		7	Fr		7	Mo		7	Mo		7	Th	
8	Mo	DPT - C49	8	We		8	Sa		8	Tu		8	Tu		8	Fr	
9	Tu	DPT - P50	9	Th		9	Su		9	We		9	We		9	Sa	
10	We	DPT - C50	10	Fr		10	Mo		10	Th		10	Th		10	Su	
11	Th	DPT - P51	11	Sa	CT-2 (M&A)	11	Tu		11	Fr		11	Fr		11	Mo	
12	Fr	DPT - P52	12	Su		12	We	FST-4	12	Sa		12	Sa		12	Tu	
13	Sa	UT-11 (M)	13	Mo		13	Th		13	Su		13	Su		13	We	
14	Su		14	Tu		14	Fr		14	Mo		14	Mo		14	Th	
15	Mo		15	We		15	Sa	SBT-3 (HA)	15	Tu		15	Tu		15	Fr	
16	Tu		16	Th		16	Su		16	We		16	We		16	Sa	
17	We		17	Fr		17	Mo		17	Th		17	Th		17	Su	
18	Th		18	Sa		18	Tu		18	Fr		18	Fr		18	Mo	
19	Fr	Guru Nanak Jayanti	19	Su		19	We		19	Sa		19	Sa		19	Tu	
20	Sa		20	Mo		20	Th		20	Su		20	Su		20	We	
21	Su		21	Tu		21	Fr		21	Mo		21	Mo		21	Th	
22	Mo		22	We	FST-1	22	Sa		22	Tu		22	Tu		22	Fr	
23	Tu		23	Th		23	Su		23	We		23	We		23	Sa	
24	We		24	Fr		24	Mo		24	Th		24	Th		24	Su	
25	Th		25	Sa	Christmas Day	25	Tu		25	Fr		25	Fr		25	Mo	
26	Fr		26	Su		26	We	Republic Day	26	Sa		26	Sa		26	Tu	
27	Sa	UT-12 (M)	27	Mo		27	Th		27	Su		27	Su		27	We	
28	Su		28	Tu		28	Fr		28	Mo		28	Mo		28	Th	
29	Mo	FST-2	29	We		29	Sa					29	Tu		29	Fr	
30	Tu		30	Th		30	Su					30	We		30	Sa	
			31	Fr		31	Mo					31	Th				



Thank You

ALL THE BEST FOR YOUR EXAMS!!