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Medical | IIT-JEE | Foundations

Ranker Test Schedule for JEE (Main & Adv)

For Class- XII (2024-25)



Online Test Schedule for Class XII

Test	Date	Day	TOPIC
UT -1 (Main)	18-05-2024	Saturday	Physics - Physical World, Units & Measurement, Motion in a Straight Line Chemistry - Structure of Atom, Some Basic concept in Chemistry Maths - Basics of Mathematics, Relations and Functions
UT -2 (Main)	25-05-2024	Saturday	Physics - Electric Charges and Field, Electrostatic Potential and Capacitance Chemistry - Solution, Electrochemistry Maths - Relations and Functions, Inverse Trigonometric Functions
UT -3 (Main)	08-06-2024	Saturday	Physics - Motion in a Plane, Laws of Motion Chemistry - Classification of Elements and Periodicity, Chemical bonding and Molecular Structure Maths - Trigonometric Functions Part-I, Quadratic Equations, Complex Numbers - I, Linear Inequalities
PT -1 (Adv)	22-06-2024	Saturday	Physics - Physical World, Units & Measurement, Motion in a Straight Line, Electric Charges and Field, Electrostatic Potential and Capacitance, Motion in a Plane, Laws of Motion Chemistry - Structure of Atom, Some Basic concept in Chemistry, Solid State, Solution, Electrochemistry, Classification of Elements and Periodicity, Chemical bonding and Molecular Structure, State of Matter Maths - Basics of Mathematics, Relations and Functions, Relations and Functions, Inverse Trigonometric Functions, Trigonometric Functions Part-I, Quadratic Equations, Complex Numbers - I, Linear Inequalities
UT -4 (Main)	20-07-2024	Saturday	Physics - Current Electricity, Moving charges and Magnetism Chemistry - Chemical Kinetics & Nuclear Chemistry, The p-Block Elements (Group 15 - 18) Maths - Matrices, Determinants
UT -5 (Main)	27-07-2024	Saturday	Physics - Work, Energy and Power, System of Particles and Rotational Motion Chemistry - Thermodynamics, Equilibrium Maths - Sequence and Series, Permutations and Combinations
UT -6 (Main)	10-08-2024	Saturday	Physics - Magnetism and Matter, Electromagnetic Induction Chemistry - The d & f-Block Elements, Coordination Compounds, Haloalkanes and Haloarenes (including GOC) Maths - Continuity and Differentiability, Applications of Derivatives
PT-2 (Adv)	31-08-2024	Saturday	Physics - Current Electricity, Moving charges and Magnetism, Work, Energy and Power, System of Particles and Rotational Motion, Electromagnetic Induction Chemistry - Chemical Kinetics & Nuclear Chemistry, The p-Block Elements (Group 15 - 18), Thermodynamics, Equilibrium, The d & f-Block Elements, Coordination Compounds, Haloalkanes and Haloarenes (including GOC), Surface Chemistry Maths - Matrices, Determinants, Sequence and Series, Permutations and Combinations, Continuity and Differentiability, Applications of Derivatives
UT -7 (Main)	21-09-2024	Saturday	Physics - Gravitation, Mechanical Properties of Solids, Mechanical Properties of Fluids Chemistry - Redox Reactions, Stoichiometry and Volumetric Analysis, Organic Chemistry - Some Basic Principles and Techniques Maths - Binomial Theorem, Straight Lines, Conic Sections-I



Aakash

Medical | IIT-JEE | Foundations

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For Class- XII (2024-25)



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Test	Date	Day	TOPIC
UT -8 (Main)	05-10-2024	Saturday	Physics - Alternating Current, Electromagnetic Waves, Ray Optics and Optical Instruments Chemistry -Alcohols, Phenols and Ethers, Aldehydes, Ketones and Carboxylic Acids Maths - Indefinite Integrals, Definite Integrals
UT -9 (Main)	22-10-2024	Tuesday	Physics - Thermal Properties of Matter, Thermodynamics, Kinetic Theory of Gases Chemistry -Hydrocarbons Maths - Conic Section - II, Introduction to Three Dimensional Geometry, Limits & Derivatives
PT -3 (Adv)	26-10-2024	Saturday	Physics - Gravitation, Mechanical Properties of Solids, Mechanical Properties of Fluids, Alternating Current, Electromagnetic Waves, Ray Optics and Optical Instruments, Thermal Properties of Matter, Thermodynamics, Kinetic Theory of Gases Chemistry - Redox Reactions, Stoichiometry and Volumetric Analysis, Organic Chemistry - Some Basic Principles and Techniques, Alcohols, Phenols and Ethers, Aldehydes, Ketones and Carboxylic Acids, Hydrocarbons, Environmental Chemistry, Hydrogen Maths - Binomial Theorem, Straight Lines, Conic Sections-I, Indefinite Integrals, Definite Integrals, Conic Section - II, Introduction to Three Dimensional Geometry, Limits & Derivatives
UT -10 (Main)	09-11-2024	Saturday	Physics - Wave Optics, Dual Nature of Radiation & Matter, Atoms Chemistry -Amines, Biomolecules Maths - Application of Integrals, Differential Equations, Vector Algebra
UT -11 (Main)	30-11-2024	Saturday	Physics - Oscillations, Waves Chemistry - The p-Block Elements (Group- 13, 14) Maths - Statistics, Probability, Complex Numbers - II, Trigonometric Functions-II
UT -12 (Main)	14-12-2024	Saturday	Physics - Nuclei, Semiconductor Electronics: Materials, Devices & Simple Circuits, Experimental Physics Chemistry - Principles Related to Practical Chemistry including Qualitative Analysis Maths - Three Dimensional Geometry, Probability
PT -4 (Adv)	21-12-2024	Saturday	Physics - Wave Optics, Dual Nature of Radiation & Matter, Atoms, Oscillations, Waves, Nuclei, Experimental Physics Chemistry -Amines, Biomolecules, The p-Block Elements (Group- 13, 14), Principles Related to Practical Chemistry including Qualitative Analysis, The s-Block Elements, Polymers, Chemistry in Everyday life, General Principles & Processes of Isolation of Elements Maths - Application of Integrals, Differential Equations, Vector Algebra, Statistics, Probability, Complex Numbers - II, Trigonometric Functions-II, Three Dimensional Geometry, Probability
Mock Test-1	04-01-2025	Saturday	Mock Test on JEE (Main)
Mock Test-2	14-01-2025	Tuesday	Mock Test on JEE (Advanced) (Paper-1 & 2)
Mock Test-3	18-01-2025	Saturday	Mock Test on JEE (Main)
Mock Test-4	25-01-2025	Saturday	Mock Test on JEE (Advanced) (Paper-1 & 2)



Aakash

Medical | IIT-JEE | Foundations

Ranker Test Schedule for JEE (Main & Adv)

For Class- XII (2024-25)

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Sr.No.	Test Name	Test Syllabus - Class XI
1	Physics Quiz - 1	Units & Measurement: Dimensions, Errors
2	Chemistry Quiz - 1	Some Basic Concepts of Chemistry: Concentration Terms, Law of Equivalence, Significant Figures, Mole Concept and Stoichiometry
3	Mathematics Quiz - 1	Basics of Mathematics: Sets, Wavy Curve Method
4	Physics Quiz - 2	Kinematics: Displacement, Velocity & acceleration, Kinematics equations and Graphs
5	Chemistry Quiz - 2	Some Basic Concepts of Chemistry: Stoichiometry, Average Molar Mass, Empirical and Molecular Formula
6	Mathematics Quiz - 2	Basics of Mathematics: Wavy Curve Method, Set
7	Physics Quiz - 3	Kinematics: Motion with constant Acceleration, Motion in a plane (Projectile motion)
8	Chemistry Quiz - 3	Structure of atom: Quantum Mechanical Model, Quantum Numbers, Fundamental Particles, Rutherford Model, Bohr Model, Hydrogen Spectrum
9	Mathematics Quiz - 3	Relations and Functions: Relations, Domain and Range, Cartesian Product of sets
10	Physics Quiz - 4	Kinematics: Relative Motion and plane Motion, Circular Motion
11	Chemistry Quiz - 4	Structure of atom: Bohr Model and Hydrogen Spectrum; Atomic Structure: Orbital, Shapes, Nodes
12	Mathematics Quiz - 4	Relations and Functions: Relations, Domain, Range,
13	Physics Quiz - 5	Laws of Motion: Equilibrium/Lami's Theorem/FBD, Newton's law of motion, linear momentum
14	Chemistry Quiz - 5	Atomic Structure: de-Broglie Dual Nature of Matter and Heisenberg Uncertainty Principle, Planck Quantum Theory and Photoelectric Effect
15	Mathematics Quiz - 5	Relations and Function: Domain, Range, Different types of functions, Functional Equation
16	Physics Quiz - 6	Laws of Motion: Equation for acceleration (Pulley's, inclined problems), Constraint Relationships



Aakash

Medical | IIT-JEE | Foundations

Ranker Test Schedule for JEE (Main & Adv)

For Class- XII (2024-25)



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Sr.No.	Test Name	Test Syllabus - Class XI
17	Chemistry Quiz - 6	Classification of Elements and Periodicity in Properties: Characteristics of Periodic Table, Properties of Elements and their Compounds, Atomic and Ionic Radii
18	Mathematics Quiz - 6	Relations and Functions: Range, Different types of functions, Domain, Range
19	Physics Quiz - 7	Laws of Motion: Friction, Pseudo Force
20	Chemistry Quiz - 7	Classification of Elements and Periodicity in Properties: Ionisation Energy / Ionisation Potential, Electron Affinity, Electronegativity
21	Mathematics Quiz - 7	Trigonometric function-I: Trigonometric Ratios of allied angles, Transformation formulae, Trigonometric Ratio of allied angles; Trigonometric Ratios and identities: Domain and Range of Trigonometric Functions, Transformation formulae
22	Physics Quiz - 8	Laws of Motion: Dynamics of Circular Motion
23	Chemistry Quiz - 8	Chemical Bonding and Molecular Structure: Types of Chemical Bond, Lewis Theory, Formal Charge, Bond Parameters
24	Mathematics Quiz - 8	Trigonometric Function-I: Trigonometric equation, Trigonometric ratios; Trigonometric Ratios and Identities: Transformation formulae; Relations and Functions, Trigonometric Function-I: Graphs, Transformation formulae, Graphical Transformations, Range of Trigonometric Functions
25	Physics Quiz - 9	Work, Energy and Power: Work done, Power, Work-Energy Theorem
26	Chemistry Quiz - 9	Chemical Bonding and Molecular Structure: Fajan's Rule, Dipole Moment and Resonance
27	Mathematics Quiz - 9	Trigonometric Function-I, Quadratic Equation: General Solution, Sum and Product of Roots, Nature of Roots ; Trigonometric Function-I: Range of Trigonometric Functions, General Solution of Trigonometric Equation
28	Physics Quiz - 10	Work, Energy and Power: Potential energy, Spring & Spring P.E.
29	Chemistry Quiz - 10	Chemical Bonding and Molecular Structure: VBT and VSEPR Theory, Hybridisation
30	Mathematics Quiz - 10	Trigonometric Function-I, Quadratic Equation: General Solution, Nature of Roots; Trigonometric Function-I: General Solution of Trigonometric Equations; Quadratic Equation: Nature of Roots, Location of Roots
31	Physics Quiz - 11	Work, Energy and Power: Motion in vertical circle, Conservation of Mechanical energy





Aakash

Medical | IIT-JEE | Foundations

Ranker Test Schedule for JEE (Main & Adv)

For Class- XII (2024-25)



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Sr.No.	Test Name	Test Syllabus - Class XI
32	Chemistry Quiz - 11	Chemical Bonding and Molecular Structure: Hybridisation, MOT
33	Mathematics Quiz - 11	Quadratic Equation: Range of Quadratic Expression, Common Roots, Location of Roots Transformation of Equations, Analysis of Cubic Equation, Common Roots, Transformation of Equation, Quadratic Equation in two Variables; Trigonometric Function-I, Quadratic Equation: General Solution of Trigonometric Equations, Sum and Product of Roots
34	Physics Quiz - 12	Work, Energy and Power: Conservation of linear momentum (collision), Oblique collision
35	Chemistry Quiz - 12	Chemical Bonding and Molecular Structure: MOT and Hydrogen Bonding; States of Matter: Gaseous State and Ideal Gas Laws
36	Mathematics Quiz - 12	Quadratic Equation: Sum and Product of Roots, Formation of Equation, Location of Roots, Sum and Product of Roots; Complex Numbers: Iota, Properties of Modulus; Quadratic Equation, Complex Number: Nature of Roots, Location of Roots, Properties of Modulus
37	Physics Quiz - 13	System of Particles and rotational motion: Center of Mass (position, velocity, acceleration & shifting), Angular velocity and Angular acceleration
38	Chemistry Quiz - 13	States of Matter: Kinetic Theory of Gases, Real Gas and Compressibility Factor
39	Mathematics Quiz - 13	Complex Number, Linear Inequality: Algebra of a Complex Number, Modulus of a Complex Number, Linear Inequalities; Complex Number: Properties of Modulus of a Complex Number; Sequence and Series, Complex Number: Arithmetic Progression, Algebra of Complex Numbers, Modulus and Argument of a Complex Number; Quadratic Equation, Complex Number: Sum and Product of Roots, Properties of Modulus, Euler Form
40	Physics Quiz - 14	System of Particles and rotational motion: Equilibrium, Moment of inertia (Theorem)
41	Chemistry Quiz - 14	States of Matter: Grahams Law of Diffusion and Daltons Law of Partial Pressure, Eudiometry
42	Mathematics Quiz - 14	Complex Number, Sequence and Series: Properties of Modulus and Argument, Geometric Progression, Arithmetic Progression, Arithmetic Mean; Sequence and Series: Harmonic Progression, Arithmetico-Geometric Progression, Telescopic Series, Sum of n Terms of G.P., Exponential and Logarithmic Series
43	Physics Quiz - 15	System of Particles and rotational motion: Dynamic of rotational motion, Conservation of energy (Rotational kinetic Energy)
44	Chemistry Quiz - 15	States of Matter: Critical Constants, Liquifaction of Gases Vapour Pressure, Surface Tension and Viscosity; Thermodynamics: First Law of Thermodynamics





Aakash

Medical | IIT-JEE | Foundations

Ranker Test Schedule for JEE (Main & Adv) For Class- XII (2024-25)



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Sr.No.	Test Name	Test Syllabus - Class XI
45	Mathematics Quiz - 15	Sequence and Series: Special Series, Geometric Progression, Telescope Series, Exponential and Logarithmic Series, Arithmetic Progression, Harmonic Progression, Series; Logarithm, Binomial Theorem: Logarithm, General Term
46	Physics Quiz - 16	System of Particles and rotational motion: Rolling motion, Torque and angular moment
47	Chemistry Quiz - 16	Thermodynamics: Thermochemistry, Second Law of Thermodynamics
48	Mathematics Quiz - 16	Binomial Theorem: General Term, Middle Term, Numerically Greatest Term, Binomial Theorem for any Index; Sequence and Series: Sum of Special Series, Telescopic Series, Properties of AM, GM, HM
49	Physics Quiz - 17	System of Particles and rotational motion: Conservation of angular momentum
50	Chemistry Quiz - 17	Thermodynamics: Gibb's Free Energy; Equilibrium: Chemical Equilibrium
51	Mathematics Quiz - 17	Binomial Theorem: General Term, Binomial Series, Multinomial Theorem; Sequence and Series, Binomial Theorem: Properties of AM, GM, HM, General Term, Binomial Series
52	Physics Quiz - 18	Gravitation: Gravitation field, Acceleration due to Gravity
53	Chemistry Quiz - 18	Equilibrium: Le-Chatelier's Principle, pH of Weak Acid, Bases
54	Mathematics Quiz - 18	Binomial Theorem, Permutation and Combination: General Term, Fundamental Principle of Counting, Permutation of Distinct Objects, Binomial Series, Permutation under certain Restriction, Combination, Division of Objects into Groups, Combination; Binomial Theorem: Binomial Expansion, Binomial Series
55	Physics Quiz - 19	Gravitation: Gravitation field, Gravitation potential energy
56	Chemistry Quiz - 19	Equilibrium: Salt Hydrolysis and Buffer Solution, Solubility Product
57	Mathematics Quiz - 19	Permutation and Combination: Combination, Divisors, Rank, Number of Integral Solutions of an Equation
58	Physics Quiz - 20	Gravitation: Conservation of energy, Kepler's Law (Escape speed/Orbital speed)
59	Chemistry Quiz - 20	Redox Reactions: Oxidation Number and Balancing of Redox Reactions, Titrations and Volume Strength of H_2O_2
60	Mathematics Quiz - 20	Permutation and Combination: Multinomial Theorem, Power of Prime p in $n!$, Number of Integral Solutions, Division of Objects into Groups; Straight Line: Angle Bisector, Family of Lines, Shifting of Origin, Image of a Point





Aakash

Medical | IIT-JEE | Foundations

Ranker Test Schedule for JEE (Main & Adv)

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Sr.No.	Test Name	Test Syllabus - Class XI
61	Physics Quiz - 21	Gravitation: Kepler's Law
62	Chemistry Quiz - 21	Hydrogen: Properties of Hydrogen, Properties of H ₂ O ₂ and Water
63	Mathematics Quiz - 21	Straight Line: Pair of Straight Lines, Rotation of Axes, Homogenisation, Distance of a Point from a Line, Pair of Straight Lines; Straight Line, Circle: Pair of Straight Lines, Locus, Line and Circle
64	Physics Quiz - 22	Mechanical Properties of Solids: Mechanical Properties of Solids, Hooke's Law and Elasticity
65	Chemistry Quiz - 22	The s-Block Elements: Properties of Alkali Metals, Properties of Alkaline Earth Metals
66	Mathematics Quiz - 22	Circle: Tangent to a circle, Equation of a circle, Length of Intercept on Coordinate Axes, Radical Axis, Family of Circles, Intercepts on coordinate Axes, Equation of Circle, Relative Position of Two Circles; Straight Line: Family of Lines, Equations of Straight Lines
67	Physics Quiz - 23	Mechanical Properties of Fluids: Pressure (Pascal law)/Archimedes Principle, Archimedes' Principle (Buoyant Archimedes' Force), Accelerated Frame
68	Chemistry Quiz - 23	The p-Block Elements: Properties of Group 13 Elements, Properties of Group 14 Elements
69	Mathematics Quiz - 23	Conic Section-I: Orthogonality of Two Circles, Pair of Tangents, Radical Axis, Family of Circles, Pair of Tangents, Chord bisected at a given Point, Common Tangent, Pair of Tangents, Chord of Contact; Conic Section (I & II): Tangents to Parabola, Chord bisected at given Point
70	Physics Quiz - 24	Mechanical Properties of Fluids: Application of Bernoulli's Theorem, Viscosity/Surface Tension
71	Chemistry Quiz - 24	Organic Chemistry: Some Basic Principles and Techniques: Introduction of Organic Compounds and IUPAC Naming, Structural Isomerism
72	Mathematics Quiz - 24	Conic Section (I & II): Director Circle of a Circle, Standard Equation of a Parabola, Tangents to Parabola; Conic Section-II: Standard Equation of Parabola, Tangent to Parabola, Intersection of Parabola & Circle, Equation of Tangent to Parabola, Equation of Normal to Parabola, Chord of Contact, Normal to Parabola, Tangent to Ellipse, Pair of Tangents to Ellipse, Normal to Hyperbola
73	Physics Quiz - 25	Mechanical Properties of Fluids: Fluids
74	Chemistry Quiz - 25	Organic Chemistry : Some Basic Principles and Techniques: Stereoisomerism, Electronic Displacement Effects in Covalent Bonds and Application
75	Mathematics Quiz - 25	Conic Section-II: Standard Equation of Parabola, Standard Equation of Ellipse, Normal to Parabola, Locus Problem, Hyperbola, Tangents and Normals to Ellipse & Hyperbola; Conic Section-II, straight lines: Orthogonality, Angle bisectors





Aakash

Medical | IIT-JEE | Foundations

Ranker Test Schedule for JEE (Main & Adv) For Class- XII (2024-25)



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Sr.No.	Test Name	Test Syllabus - Class XI
76	Physics Quiz - 26	SHM: Equation of SHM and related term, Simple/Physical Pendulum
77	Chemistry Quiz - 26	Organic Chemistry : Some Basic Principles and Techniques: Aromaticity, Purification techniques, Quantitative and Qualitative Estimation
78	Mathematics Quiz - 26	Conic Section-II: Standard Equation of Hyperbola, Chord of an Ellipse, Director Circle of Ellipse, Asymptote of a Hyperbola, Rectangular Hyperbola, Ellipse, Hyperbola, Rectangular Hyperbola
79	Physics Quiz - 27	SHM: Time Period of SHM(Linear), Combination of Springs; Oscillation: Energy in SHM
80	Chemistry Quiz - 27	Hydrocarbons: Preparation and Properties of Alkanes, Preparation and Properties of Alkenes
81	Mathematics Quiz - 27	Complex Number & Quadratic Equation: Square Root of Complex Number, Polar Form, De-Moivre's Theorem; Conic Section-II: Hyperbola, Ellipse; Complex Number: n^{th} Root of Unity, Polar form, Demoivre's Theorem Geometry of Complex Number, Rotation, Geometry of Complex Numbers
82	Physics Quiz - 28	P.V.T (graphs)/ Ideal gas equation: Thermodynamics process; Thermal Properties of Matter: Kinetic Theory of gases
83	Chemistry Quiz - 28	Hydrocarbons: Preparation and Properties of Alkynes, Electrophilic Aromatic Substitution
84	Mathematics Quiz - 28	Complex Number: Rotation of complex numbers Roots of unity, Geometry of Complex Numbers, n^{th} Root of Unity, Rotation of Complex Numbers, Rotation
85	Physics Quiz - 29	Thermal Properties of Matter: Heat radiation (Wien's displacement), Calorimetry
86	Chemistry Quiz - 29	Environmental Chemistry: Air Pollutants, Water Pollutants
87	Mathematics Quiz - 29	Complex Number: Geometry of Complex Number; Complex Number Limits: Rotation, Geometry of Complex Numbers, One-sided Limits; Limits: Evaluation of 0/0 form, $\frac{\infty}{\infty}$, $\frac{\infty}{\infty}$, $\frac{-\infty}{\infty}$, L-Hospital Rule, Complex Number, Derivates, 3-Dimensional Geometry: n^{th} Roots of Unity, Derivatives of Higher Order, Direction Cosines
88	Physics Quiz - 30	Thermodynamics: P.V.T (graphs)/ Ideal gas equation/ Thermodynamics process
89	Mathematics Quiz - 30	Limits & Derivatives: Evaluation of Limits, Differentiation; Limits, Trigonometry-II: Infinite Limits, Trigonometric Ratios of Submultiple Angles; Complex Number, Trigonometric Functions: Sum of Trigonometric series, De-Moivre's Theorem, Trigonometric Ratios of Multiple angles; Probability: Classical Definition of Probability
90	Physics Quiz - 31	Thermodynamics: P.V.T (graphs)/ Ideal gas equation/ Thermodynamics process; Kinetic Theory: Kinetic Theory of gases





Aakash

Medical | IIT-JEE | Foundations

Ranker Test Schedule for JEE (Main & Adv)

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Sr.No.	Test Name	Test Syllabus - Class XI
91	Mathematics Quiz - 31	Probability, Trigonometric Ratios, Trigonometric Equation: Permutation & Combination based Probability, Trigonometric Equations, Transformation Formulae; Trigonometric Equations: Different types of Trigonometric Equations; Complex Numbers, Trigonometric Functions: Trigonometric Equations, Algebra of Complex Number; Solution of Triangles: Projection Rule, Ex-radii, Length of Angle Bisectors
92	Physics Quiz - 32	Waves and Sound: Wave equation (sinusoidal progressive wave), Interference, Intensity & Power transmitted (string)
93	Mathematics Quiz - 32	Trigonometric Functions: Properties of Triangle; Trigonometric Equations, Solutions of Triangles: Equations Involving more than one Variables, Half Angle Formulae
94	Physics Quiz - 33	Waves and Sound: Interference, Intensity & Power transmitted (string), Standing wave & resonance in string
95	Physics Quiz - 34	Waves and Sound: Resonance in air columns; Waves: Doppler's effect
96	Physics Quiz - 35	Waves and Sound: Beats



Aakash

Medical | IIT-JEE | Foundations

Ranker Test Schedule for JEE (Main & Adv)

For Class- XII (2024-25)

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Sr.No.	Test Name	Test Syllabus - Class XII
1	Physics Quiz - 1	Electric charges and field: Electric force, Electric field, Field Lines
2	Chemistry Quiz - 1	Solid State: Unit Cell, Formula of Unit Cell, Lattice Parameters (Edge Length, Density, Packing Fraction, Co-ordination Number)
3	Mathematics Quiz - 1	Relations and Functions: Relations, Domain and Range
4	Physics Quiz - 2	Electric charges and field: Electric flux and Gauss Law, Electric Dipole
5	Chemistry Quiz - 2	Solid State: Lattice Parameters (Edge Length, Density, Packing Fraction, Co-ordination Number), Structure of Solids, Defects, Properties of Solids
6	Mathematics Quiz - 2	Relations and Functions: Relations, Domain and Range
7	Physics Quiz - 3	Electric potential and Capacitance: Electric potential, Electrostatic Potential Energy
8	Chemistry Quiz - 3	Solution: Colligative Properties, Raoult's Law (Ideal and Non-ideal Solutions), Concentration Terms, Henry's Law, Miscellaneous
9	Mathematics Quiz - 3	Relations and Functions: Range, Domain, Types of Functions, Transformation of Function; Functions: Even/Odd Function, Periodic Function
10	Physics Quiz - 4	Electrostatics: Conductors, Capacitor (charge, energy, force redistribution), Electrostatics Potential and capacitance capacitor
11	Chemistry Quiz - 4	Electrochemistry: Applications of Electrode Potential, Electrochemical Cell and Nernst Equation
12	Mathematics Quiz - 4	Inverse Trigonometric Function: Principal Value; Function, Inverse Trigonometric Function: Functional Equation, Principal Value, Different types of functions
13	Physics Quiz - 5	Current Electricity: Combination of resistances, Electric energy & power
14	Chemistry Quiz - 5	Electrochemistry: Electrolysis, Conductance
15	Mathematics Quiz - 5	Functions, Inverse Trigonometric Functions: Properties of Inverse Trigonometric Function, Different Types of Functions, Principal Value, Properties of I.T.F.
16	Physics Quiz - 6	Current Electricity: Ohm's law, Kirchoff Rule



Aakash

Medical | IIT-JEE | Foundations

Ranker Test Schedule for JEE (Main & Adv) For Class- XII (2024-25)

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Sr.No.	Test Name	Test Syllabus - Class XII
17	Chemistry Quiz - 6	Electrochemistry: Conductance, Metal Insoluble Electrodes, Cells
18	Mathematics Quiz - 6	Inverse Trigonometric Functions, Matrices and Determinants: Properties of I.T.F., Properties of Transpose, Inter Conversions, Properties of I.T.F., Properties of Inverse Trigonometric Functions
19	Physics Quiz - 7	Current Electricity: Measuring instruments, Combination of cells
20	Chemistry Quiz - 7	Chemical Kinetics and Nuclear Chemistry: Average and Instantaneous Rate of Reaction and Law of Mass Action; Chemical Kinetics: Integrated Rate Law, Initial Rate Law Method, Graphical Representation and Order of Reaction from Reaction Mechanism
21	Mathematics Quiz - 7	Matrices and Determinants: Properties of Determinants, Properties of Matrix Multiplication, Properties of I.T.F.; Inverse Trigonometric Functions: Equations Involving I.T.F.
22	Physics Quiz - 8	Current Electricity: RC Circuit, RC Circuit-1
23	Chemistry Quiz - 8	Chemical Kinetics: Order of Reaction and Molecularity, Numericals based on First Order Reaction, Parallel Reactions
24	Mathematics Quiz - 8	Matrices and Determinants, Continuity and Differentiability: Cramer's rule, Continuity, Properties of Determinant, Cramer's Rule, Limits; Matrices and Determinants, Limits: LHL and RHL, Properties of Determinants
25	Physics Quiz - 9	Magnetism: Motion of charge particle in magnetic and electric field, Motion of charge particle in magnetic and electric field (1)
26	Chemistry Quiz - 9	Chemical Kinetics: Arrhenius theory, Nuclear Chemistry
27	Mathematics Quiz - 9	Differentiation: Differentiation of Implicit Function, Differentiation of Parametric Function, Differentiation of Inverse Trigonometric Function, Derivative of Inverse Trigonometric Function, Derivative of Implication Function, Rolle's Theorem, Logarithmic Differentiation, Second Order Derivative; Continuity and Differentiability: Lagrange's Mean Value Theorem, Derivative of Composite Function, Continuity
28	Physics Quiz - 10	Magnetism: Magnetic field - Biot-Savart's law and its application (1), Magnetic field - Biot-Savart's law and its application (2)
29	Chemistry Quiz - 10	Surface Chemistry: Adsorption, Colloids and Properties of Colloids
30	Mathematics Quiz - 10	Continuity and Differentiability, Differentiation: Lagrange's mean value theorem, Second Order Derivatives, Logarithmic Differentiation, Derivative of Higher Order; Continuity and Differentiability, Application of Derivative: Differentiability, Tangent and Normal, Monotonicity
31	Physics Quiz - 11	Magnetism: Magnetic force on current carrying wire, Moment, Magnetic dipole and Bar magnet



Aakash

Medical | IIT-JEE | Foundations

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For Class- XII (2024-25)



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Sr.No.	Test Name	Test Syllabus - Class XII
32	Chemistry Quiz - 11	General Principle and Process of Isolation of Elements: Important Ores and Metallurgical Process, Extraction of important metals, purification and refining process
33	Mathematics Quiz - 11	Differentiation, Application of Derivative: Differentiation of Inverse Trigonometric Function, Monotonicity, Differentiation of Explicit Function, Maxima and Minima; Continuity and Differentiability, Application of Derivative: Differentiability, Monotonicity; Application of Derivative: Tangent and Normal
34	Physics Quiz - 12	Magnetism: Magnetic Effect of current, Ampere circuital law, Moving coil galvanometer
35	Chemistry Quiz - 12	The p-Block Elements: Properties of group 15 & 16 Elements
36	Mathematics Quiz - 12	Application of Derivative: Monotonicity, Maxima and Minima, Critical Point, Problems based on Application of Maxima and Minima; Indefinite Integration: Integration by Substitution
37	Physics Quiz - 13	Electromagnetic Induction: Faradays Law of EMI, Induced current, Motional E.M.F.
38	Chemistry Quiz - 13	The p-Block Elements: Properties of group 17 & 18 Elements
39	Mathematics Quiz - 13	Application of Derivative, Indefinite Integration: Maxima and Minima, Practical Problems Based on Maxima and Minima, Basic Integration; Indefinite Integration: Basic Integration, Integration by Substitution
40	Physics Quiz - 14	Electromagnetic Induction: Motional E.M.F., Induced Electric field
41	Chemistry Quiz - 14	The d- and f-Block Elements: General characteristics of transition metals, General Characteristics of Lanthanoids and Actinoids; The d- and f-Block: Preparation and properties of $K_2Cr_2O_7$ and $KMnO_4$
42	Mathematics Quiz - 14	Indefinite Integration, Definite Integration: Basic Integration, Integration by Parts, Basic Integration, Integration by Substitution
43	Physics Quiz - 15	Electromagnetic Induction: Self and mutual Inductance and Inductor, LR Circuit
44	Chemistry Quiz - 15	Co-ordination Compounds: Coordination Compounds and Werner Theory, IUPAC Naming of Coordination Compounds
45	Mathematics Quiz - 15	Indefinite Integration: Integration by Parts, Integration by Partial Fraction, Integration of Irrational Function, Integration by Substitution; Definite Integration: Properties of Definite Integration
46	Physics Quiz - 16	Electromagnetic Induction: LR Circuit; Alternating Current: Simple AC Circuit
47	Chemistry Quiz - 16	Co-ordination Compounds: Isomerism, VBT, CFT + Metal Carbonyls





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Ranker Test Schedule for JEE (Main & Adv)

For Class- XII (2024-25)



Daily Practice Test Schedule & Syllabus

Sr.No.	Test Name	Test Syllabus - Class XII
48	Mathematics Quiz - 16	Indefinite Integration: Integration by Substitution, Integration by Partial Fraction; Definite Integration: Properties of Definite Integration
49	Physics Quiz - 17	Alternating Current: Simple AC Circuit, LC Oscillation
50	Chemistry Quiz - 17	Qualitative Analysis: Analysis of Acidic Radicals, Analysis of Basic Radicals
51	Mathematics Quiz - 17	Definite Integration: Properties of Definite Integration, Newton Leibniz Formula; Indefinite Integration, Area Under Curve: Integration by Substitution, Area Bounded between Two Curves; Definite Integration, Area Under Curves: Reduction Formulae, Area Under Curves
52	Physics Quiz - 18	Ray optics & Optical Instruments: Plane Mirror & Spherical Mirror
53	Chemistry Quiz - 18	Haloalkanes and Haloarenes: Preparation of Haloalkanes, Optical activity and Stereoisomerism
54	Mathematics Quiz - 18	Definite Integration: Properties of Definite Integration, Newton Leibniz Formula; Area Under Curve, Differential Equation: Area Under Simple Curve, Solution by Inspection
55	Physics Quiz - 19	Ray optics & Optical Instruments: Spherical Mirror, Refraction & T.I.R.
56	Chemistry Quiz - 19	Haloalkanes and Haloarenes: Nucleophilic Substitution Reaction, Elimination Reaction, Preparation of Haloarenes and their Properties
57	Mathematics Quiz - 19	Definite Integration: Properties of Definite Integration, Limit as a Sum, Definite Integration Using Indefinite Integration Method; Differential Equation: Variable Separable, Homogenous Equations, Linear Differential Equation
58	Physics Quiz - 20	Ray optics & Optical Instruments: Refraction & T.I.R.
59	Chemistry Quiz - 20	Alcohol, Phenol and Ether: Preparation of Alcohols
60	Mathematics Quiz - 20	Differential Equation: Solution by Inspection, Homogenous Equations, Area Between Two Curves, Order and Degree of Differential Equation, Linear Differential Equation; Area Under Curve, Differential Equation: Area Under Curve, Formation of Differential Equation; Vectors: Vector Product; Area Under Curve
61	Physics Quiz - 21	Ray optics & Optical Instruments: Refraction & T.I.R.
62	Chemistry Quiz - 21	Alcohol, Phenol and Ether: Preparation and properties of Phenol, Preparation and Properties of Ethers and Epoxide





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Ranker Test Schedule for JEE (Main & Adv)

For Class- XII (2024-25)



Daily Practice Test Schedule & Syllabus

Sr.No.	Test Name	Test Syllabus - Class XII
63	Mathematics Quiz - 21	Area Under Curve; Differential Equation: Area Between Two Curves, Order and Degree of Differential Equation, Area Under Curve; Differential Equation, Vectors: Linear Differential Equation, Solution by Direct Inspection, Scalar Product, Scalar Triple Product, Vector Equation
64	Physics Quiz - 22	Ray Optics and Optical Instruments: Thin Lenses, Combination of Lenses and Mirror
65	Chemistry Quiz - 22	Aldehydes, Ketones and Carboxylic Acid: Preparation of aldehyde and Ketones, Nucleophilic Addition Reaction of Carbonyl Compounds
66	Mathematics Quiz - 22	Differential Equation, Vectors, Three Dimensional Geometry: Formation of Differential Equation, Variable Separable, Homogenous Differential Equation, Linear Differential Equation, Reciprocal System of Vectors, Vector Product, Vector Triple Product, A Line and a Point
67	Physics Quiz - 23	Ray Optics and Optical Instruments: Combination of Lenses and Mirror, Thin Lenses
68	Chemistry Quiz - 23	Aldehydes, Ketones and Carboxylic Acid: Oxidation and Reduction Reaction, Reaction Due to Alpha Hydrogen and Cannizzaro Reaction, Preparation and Properties of Carboxylic Acid and its Derivatives
69	Mathematics Quiz - 23	Differential Equation: Variable Separable, Linear Differential Equation, Solution by Direct Inspection, Linear Differential Equation, Solution by Direct Inspection, Orthogonal Trajectory; Vectors, Three Dimensional Geometry: Scalar Triple Product, A Line and a Point, Plane
70	Physics Quiz - 24	Ray Optics and Optical Instruments: Thin lenses and Prism
71	Chemistry Quiz - 24	Amines: Preparation of Amines, Properties of Aromatic Amines and Diazonium Salt
72	Mathematics Quiz - 24	Differential Equation, Vectors: Linear Differential Equation, Scalar Product, Position Vector, Algebra of Vectors, Scalar Triple Product; Three Dimensional Geometry: A Plane and a Point, A Line and a Plane, Two Lines
73	Physics Quiz - 25	Optics: Optical Instruments; Ray Optics and Optical Instruments: Ray Optics
74	Chemistry Quiz - 25	Biomolecules: Properties of Carbohydrates, Properties of Amino Acids and Proteins, Vitamins, Enzymes and Nucleic Acids
75	Mathematics Quiz - 25	Vector: Cross Product, Scalar Product, Scalar Triple Product, Vector Triple Product, Application of Vector in Geometry; Three Dimensional Geometry: Plane, Two Lines; Probability: Algebra of Events, Baye's Theorem
76	Physics Quiz - 26	Wave Optics: Huygens Principle / Interference, YDSE





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Ranker Test Schedule for JEE (Main & Adv)

For Class- XII (2024-25)



Daily Practice Test Schedule & Syllabus

Sr.No.	Test Name	Test Syllabus - Class XII
77	Chemistry Quiz - 26	Polymers: Polymers; Chemistry in Everyday Life: Drugs and their Classification Antiseptic and Disinfectants, Artificial Sweetening Agents Soaps, Synthetic Detergents
78	Mathematics Quiz - 26	Vectors, Three Dimensional Geometry: Application of Vectors in Geometry, Section Formula, Vector Triple Product, Scalar Triple Product, Application of Vectors to Geometry; Probability: Conditional Probability, Bernoulli Trials, Independent Events, Law of Total Probability, Baye's Thorem
79	Physics Quiz - 27	Wave Optics: YDSE/Thin film interference, Polarisation/Diffraction; Ray Optics and Optical Instruments: Polarization/Diffraction
80	Chemistry Quiz - 27	Solid State, Solutions, Electrochemistry: Solid State, Solutions, Electrochemistry, Chemical Kinetics, Surface Chemistry
81	Mathematics Quiz - 27	Three Dimensional Geometry: Director Cosines, Angle between Two Lines, A Point and a Line; Probability: Binomial Distribution, Conditional Probability, Independent Events, Independent Events, Law of Total Probability
82	Physics Quiz - 28	Atoms: Bohr Model of Atom
83	Chemistry Quiz - 28	Metallurgy, p-block Elements, d and f-block Elements, Coordination Compounds, The p-block Elements, d and f-block Elements, Coordination Compounds, Qualitative Analysis, Haloalkanes and Haloarenes, Alcohol Phenol and Ethers
84	Mathematics Quiz - 28	Three Dimensional Geometry: Plane, Shortest Distance Between Skew Lines, Equation of Plane; Probability: Law of Total Probability, Baye's Theorem, Bernoulli Trials, Binomial Theorem, Conditional Probability
85	Physics Quiz - 29	Dual Nature of Radiation and Matter: de-Broglie wavelength, Photoelectric Effect/Wave Nature
86	Chemistry Quiz - 29	Aldehydes, Ketones and Carboxylic Acids, Amines, Biomolecules
87	Mathematics Quiz - 29	Three Dimensional Geometry, Linear Programming and Linear Inequalities: Equation of Line and Plane, Angle between Line and Plane, Linear Inequalities, Foot of Perpendicular and Image of a Point in a Plane, Linear Programming; Probability: Conditional Probability; Function, Limits: Graph of a Function, Composition of Function, L-Hospital Rule
88	Physics Quiz - 30	Atoms: X-rays, Bohr's Atomic Model; Nuclei: Nuclei
89	Mathematics Quiz - 30	Probability: Conditional Probability, Independent Events; Differentiability, Application of Derivatives: Differentiability at a Point, Angle of Intersection, First Order Derivative Test; Indefinite Integration: Integration by Parts
90	Physics Quiz - 31	Nuclei: Nuclei; Semi Conductor: Semiconductors and Communication System





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Ranker Test Schedule for JEE (Main & Adv) For Class- XII (2024-25)

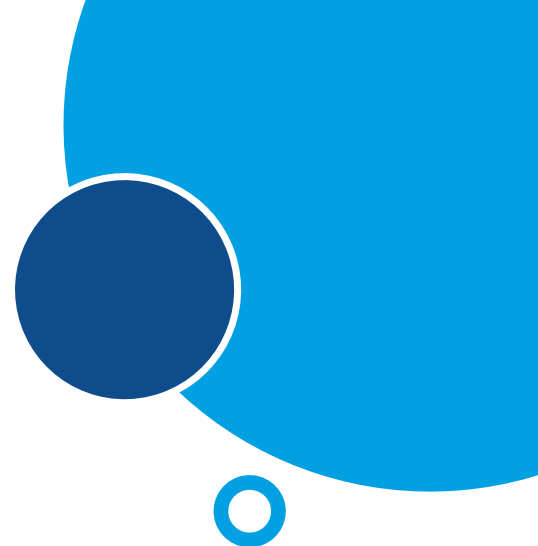
Daily Practice Test Schedule & Syllabus

Sr.No.	Test Name	Test Syllabus - Class XII
91	Mathematics Quiz - 31	Relations and Functions, Differentiation, Application of Derivatives, Continuity and Differentiability, Inverse Trigonometric Function: Types of Relation, Domain of Inverse Trigonometric Function, Chain Rule, Rolle's Theorem, Increasing and Decreasing Functions; Integrals: Integration by Substitution, Integration by Parts, Definite Integration; Definite Integrals: Definite Integration using Independent Integration, Properties of Definite Integration
92	Physics Quiz - 32	Semiconductors and Communication system: Semiconductors and Communication system; Modern Physics: Modern Physics
93	Mathematics Quiz - 32	Definite Integration, Differential Equation: Properties of Definite Integration, Estimation, Limit of a Sum, Linear Differential Equation, Solution by Inspection, Homogeneous Differential Equation, Orthogonal Curves; Vector and Three Dimensional Geometry: Dot Product, Vector Triple Product, Equation of Plane, Directions Cosines, Vector Products, Scalar Triple Product
94	Physics Quiz - 33	Experimental Physics/Modern Physics: Experimental Physics/Modern Physics
95	Mathematics Quiz - 33	Probability: Permutation and Combination Based, Conditional Probability, Total Probability, Basic Definition and Axiomatic Approach



AIATS SCHEDULE FOR CLASS XII STUDYING STUDENTS [2024-25]





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Summary for Class XI & XII

RANKER PACKAGE	
Year Syllabus	Class XI & XII
AIATS	17
Unit Tests	12
Part Tests	4
Full Syllabus Tests	4
Daily Practice Tests	191

