JEE Advanced Pattern Part & Cumulative Tests

	PHYSICS	CHEMISTRY	MATHS
APT - 1	Foundation Physics ; Units, Dimensions and Measurement ; Motion in One Dimension ; Motion in Two Dimensions	Some Basic Concepts of Chemistry ; Structure of Atom ; Classification of Elements and Periodicity in Properties ; Chemical Bonding and Molecular Structure	Sets ; Introduction to Relations and Functions ; Inequalities and Modulus ; Logarithm ; Theory of Equations ; Trigonometric Ratios and Identities ; Trigonometric Equations
APT - 2	Newton's Laws of Motion (Without Friction) ; Newton's Laws of Motion (With Friction) ; Work, Power and Energy ; Centre of Mass, Conservation of Linear Momentum and Collisions ; Dynamics of Rigid Body : Part 1 ; Dynamics of Rigid Body : Part 2	General Organic Chemistry : Part 1 ; General Organic Chemistry : Part 2 ; Hydrocarbons ; States of Matter ; Thermodynamics	Progression and Series ; Binomial Theorem ; Permutation and Combination ; Coordinate System and Straight Lines ; Circle ; Parabola ; Ellipse ; Hyperbola
APT - 3	Simple Harmonic Motion ; Waves and Acoustics ; Gravitation ; Mechanical Properties of Solids ; Mechanical Properties of Fluids	Chemical Equilibrium ; Ionic Equilibrium ; s-Block Elements ; Hydrogen ; Environmental Chemistry ; Redox Reactions ; p-Block Elements (Group – 13, 14)	Properties and Solutions of Triangle ; Matrices ; Determinants
APT - 4	Foundation Physics ; Units, Dimensions and Measurement ; Motion in One Dimension ; Motion in Two Dimensions ; Newton's Laws of Motion (Without Friction) ; Newton's Laws of Motion (With Friction) ; Work, Power and Energy ; Centre of Mass, Conservation of Linear Momentum and Collisions ; Dynamics of Rigid Body : Part 1 ; Dynamics of Rigid Body : Part 2 ; Simple Harmonic Motion ; Waves and Acoustics ; Gravitation ; Mechanical Properties of Solids ; Mechanical Properties of Fluids ; Thermal Properties of Matter ; Kinetic Theory of Gases and The Laws of Thermodynamics ; Geometrical Optics ; Electric Charges and Field ; Electrostatic Potential ; Capacitance ; Current Electricity : Part 1 ; Current Electricity : Part 2 ; Magnetics : Part 1 Magnetics : Part 2 ; Electromagnetic Induction : Part 1 ; Electromagnetic Induction : Part 2	Some Basic Concepts of Chemistry ; Structure of Atom ; Classification of Elements and Periodicity in Properties ; Chemical Bonding and Molecular Structure ; General Organic Chemistry : Part 1 ; General Organic Chemistry : Part 2 ; Hydrocarbons ; States of Matter ; Thermodynamics ; Chemical Equilibrium ; Ionic Equilibrium ; s-Block Elements ; Hydrogen ; Environmental Chemistry ; Redox Reactions ; p-Block Elements (Group – 13, 14) ; Solid State ; Solutions ; Electrochemistry ; Chemical Kinetics ; Surface Chemistry and Colloidal State ; Organic Compounds Containing Halogens ; Alcohols, Phenols and Ethers ; Aldehydes, Ketones and Carboxylic Acids ; Organic Compounds Containing Nitrogen ; General Principles and Processes of Isolation of Elements ; p-Block Elements (Groups 15 – 18) ; d- & f-Block Elements	Sets ; Introduction to Relations and Functions ; Inequalities and Modulus ; Logarithm ; Theory of Equations ; Trigonometric Ratios and Identities ; Trigonometric Equations ; Progression and Series Binomial Theorem ; Permutation and Combination ; Coordinate System and Straight Lines ; Circle ; Parabola ; Ellipse ; Hyperbola ; Properties and Solutions of Triangle ; Matrices ; Determinants ; Relations and Functions ; Inverse Trigonometric Functions ; Limit ; Continuity and Differentiability ; Differentiation ; Monotonicity, Maxima and Minima of Functions ; Application of Derivatives ; Indefinite Integration ; Definite Integration ; Area ; Differential Equations ; Introduction to Probability ; Probability
APT - 5	Wave Optics ; Electromagnetic Waves and Dual Nature of Radiation and Matter ; Modern Physics	Coordination Compounds ; Biomolecules ; Polymers Chemistry in Everyday Life ; Principles Related to Practical Chemistry	Vectors ; Three-Dimensional Geometry ; Complex Numbers

JEE Main Pattern Part & Cumulative Tests

	PHYSICS	CHEMISTRY	MATHS
MPT - 1	Foundation Physics ; Units, Dimensions and Measurement	Some Basic Concepts of Chemistry ; Structure of Atom	Sets ; Introduction to Relations and Functions ; Inequalities and Modulus ; Logarithm
MPT - 2	Motion in One Dimension ; Motion in Two Dimensions	Classification of Elements and Periodicity in Properties ; Chemical Bonding and Molecular Structure	Theory of Equations ; Trigonometric Ratios and Identities ; Trigonometric Equations
MPT - 3	Newton's Laws of Motion (Without Friction) ; Newton's Laws of Motion (With Friction) ; Work, Power and Energy ; Centre of Mass, Conservation of Linear Momentum and Collisions	General Organic Chemistry : Part 1 ; General Organic Chemistry : Part 2 ; Hydrocarbons	Progression and Series ; Binomial Theorem ; Permutation and Combination ; Coordinate System and Straight Lines ; Circle
MPT - 4	Foundation Physics ; Units, Dimensions and Measurement ; Motion in One Dimension ; Motion in Two Dimensions ; Newton's Laws of Motion (Without Friction) ; Newton's Laws of Motion (With Friction) ; Work, Power and Energy ; Centre of Mass, Conservation of Linear Momentum and Collisions ; Dynamics of Rigid Body : Part 1 ; Dynamics of Rigid Body : Part 2	Some Basic Concepts of Chemistry ; Structure of Atom ; Classification of Elements and Periodicity in Properties ; Chemical Bonding and Molecular Structure ; General Organic Chemistry : Part 1 ; General Organic Chemistry : Part 2 ; Hydrocarbons ; States of Matter ; Thermodynamics	Sets ; Introduction to Relations and Functions ; Inequalities and Modulus ; Logarithm ; Theory of Equations ; Trigonometric Ratios and Identities ; Trigonometric Equations ; Progression and Series Binomial Theorem ; Permutation and Combination ; Coordinate System and Straight Lines ; Circle ; Parabola ; Ellipse ; Hyperbola
MPT - 5	Simple Harmonic Motion ; Waves and Acoustics ; Gravitation ; Mechanical Properties of Solids ; Mechanical Properties of Fluids	Chemical Equilibrium ; Ionic Equilibrium ; s-Block Elements ; Hydrogen ; Environmental Chemistry ; Redox Reactions ; p-Block Elements (Group – 13, 14)	Properties and Solutions of Triangle ; Statistics ; Matrices ; Determinants
MPT - 6	Thermal Properties of Matter ; Kinetic Theory of Gases and The Laws of Thermodynamics ; Geometrical Optics ; Electric Charges and Field ; Electrostatic Potential ; Capacitance ; Current Electricity : Part 1 ; Current Electricity : Part 2 ; Magnetics : Part 1	Solid State ; Solutions ; Electrochemistry ; Chemical Kinetics ; Surface Chemistry and Colloidal State ; Organic Compounds Containing Halogens ; Alcohols, Phenols and Ethers ; Aldehydes, Ketones and Carboxylic Acids ; Organic Compounds Containing Nitrogen	Relations and Functions ; Inverse Trigonometric Functions ; Limit ; Continuity and Differentiability ; Differentiation ; Monotonicity, Maxima and Minima of Functions ; Application of Derivatives ; Indefinite Integration ; Definite Integration ; Area
MPT - 7	Magnetics : Part 2 ; Electromagnetic Induction : Part 1 ; Electromagnetic Induction : Part 2	General Principles and Processes of Isolation of Elements ; p-Block Elements (Groups 15 – 18) ; d- & f-Block Elements	Differential Equations ; Introduction to Probability ; Probability
MPT - 8	Wave Optics ; Electromagnetic Waves and Dual Nature of Radiation and Matter	Coordination Compounds ; Biomolecules	Vectors ; Three-Dimensional Geometry

MHT-CET (PCM) Pattern Part & Cumulative Tests

	PHYSICS	CHEMISTRY	MATHS
CPT(M) - 1	Foundation Physics ; Units, Dimensions and Measurement	Some Basic Concepts of Chemistry ; Structure of Atom	Sets ; Introduction to Relations and Functions ; Inequalities and Modulus ; Logarithm
CPT(M) - 2	Motion in One Dimension ; Motion in Two Dimensions ; Newton's Laws of Motion (Without Friction) ; Newton's Laws of Motion (With Friction)	Classification of Elements and Periodicity in Properties ; Chemical Bonding and Molecular Structure ; General Organic Chemistry : Part 1	Theory of Equations ; Trigonometric Ratios and Identities ; Trigonometric Equations ; Progression and Series ; Binomial Theorem ; Permutation and Combination
CPT(M) - 3	Work, Power and Energy ; Centre of Mass, Conservation of Linear Momentum and Collisions	General Organic Chemistry : Part 2 ; Hydrocarbons	Coordinate System and Straight Lines ; Circle
CPT(M) - 4	Dynamics of Rigid Body : Part 1 ; Dynamics of Rigid Body : Part 2	States of Matter ; Thermodynamics	Parabola ; Ellipse ; Hyperbola
CPT(M) - 5	Simple Harmonic Motion ; Waves and Acoustics ; Gravitation ; Mechanical Properties of Solids ; Mechanical Properties of Fluids ; Thermal Properties of Matter ; Kinetic Theory of Gases and The Laws of Thermodynamics	Chemical Equilibrium ; Ionic Equilibrium ; s-Block Elements ; Hydrogen ; Environmental Chemistry ; Redox Reactions ; p-Block Elements (Group –13, 14) ; Solid State ; Solutions	Properties and Solutions of Triangle ; Statistics ; Matrices ; Determinants ; Relations and Functions ; Inverse Trigonometric Functions
CPT(M) - 6	Geometrical Optics ; Electric Charges and Field ; Electrostatic Potential ; Capacitance ; Current Electricity : Part 1 ; Current Electricity : Part 2	Electrochemistry ; Chemical Kinetics Surface Chemistry and Colloidal State ; Organic Compounds Containing Halogens ; Alcohols, Phenols and Ethers ; Aldehydes, Ketones and Carboxylic Acids	Limit ; Continuity and Differentiability ; Differentiation ; Monotonicity, Maxima and Minima of Functions ; Application of Derivatives ; Indefinite Integration

Full Syllabus Tests

JEE ADVANCED	5 Full Syllabus Tests (11 + 12)
JEE MAIN	10 Full Syllabus Tests (11 + 12)
MHT-CET (PCM)	5 Full Syllabus Tests (11 + 12)