

**SMTS for JEE Advanced 2021-XII Passed
(Online)**

Test No.	Test Date	Pattern of Test	Subject	Topics of the Test
SMTS-1	07-10-2020	JEE (Advanced)	Phy	Motion in a Straight Line, Motion in a Plane, Laws of motion, Work, energy and power, System of Particles and Rotational Motion, Gravitation, Mechanical Properties of Solids, Mechanical Properties of Fluids, Oscillations.
			Chem	Some Basic concepts of Chemistry, Atomic Structure, Periodic Properties, Chemical bonding and molecular structure, States of Matter, Thermodynamics, Equilibrium, Redox Reactions & Volumetric Analysis*, Solid State, Solutions, Electrochemistry, Chemical Kinetics and Nuclear Chemistry
			Maths	Quadratic Equations, Complex numbers, Principle of Mathematical Induction, Sequence and Series, Binomial Theorem, Permutation and Combination, Matrices, Determinants, Trigonometric functions
SMTS-2	18-11-2020	JEE (Advanced)	Phy	Waves, Thermal Properties Of Matter, Kinetic Theory Of Gases, Thermodynamics, Electric Charges And Field, Electrostatic Potential And Capacitance, Current Electricity
			Chem	Organic Chemistry : Some Basic Principles and Techniques, Hydrocarbon, Haloalkanes and Haloarenes, Alcohols, Phenols and Ethers, Aldehydes, Ketones and Carboxylic acids, Amines, Biomolecules, Polymers, Chemistry in Everyday Life, Environmental Chemistry
			Maths	Inverse Trigonometric Functions, Straight Line, Conic Section-I, Conic Section-II, Mathematical Reasoning, Sets, Relation and function
SMTS-3	13-01-2021	JEE (Advanced)	Phy	Moving Charges and Magnetism, Magnetism and Matter**, Electromagnetic Induction, Alternating Current, Electromagnetic Waves**, Ray Optics, Wave Optics, Dual Nature of radiation and Matter, Atoms, Nuclei, Semiconductor Electronics : Materials Devices And Simple Circuits**, Communication Systems**, Units & Measurements
			Chem	d & f - Block elements, Co-ordination Compounds, Qualitative Analysis, General Principles and Processes of Isolation of Elements, Hydrogen, s-block element, p-block elements (group 13 to group 18), Surface Chemistry,
			Maths	Limits and Derivatives, Continuity and Differentiability, Applications of Derivatives, Indefinite Integration, Definite Integration, Application of integrals, Differential Equations, Vectors Algebra, 3D Geometry, Probability, Statistics

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