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JEE Main 2023 April 12 Shift 1 Analysis

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- Mathematics: Moderately Tough. Questions were asked from all chapters with an emphasis on chapters on Coordinate Geometry & Calculus. Mixed Concept Questions were asked from Circles, Ellipse, and Hyperbola. In Algebra chapters covered were Vectors (2 questions), 3-D Geometry (3 to 4 questions), Binomial Theorem, Progressions, Matrices, Mathematical Reasoning, Statistics (2 questions), Permutation & Combination, and Probability. In Calculus- Functions (3 questions), Definite Integrals (2 questions), Area, Differential Equations. The numerical section had lengthy calculations. A few questions were reported as tricky.
- Physics: Easy. Questions asked from Kinematics, Fluids, Heat & Thermodynamics, Kinetic Theory of Gases, Gravitation, Rotational Motion, EM Waves, Electrostatics, Semiconductors, Magnetism, AC Circuits, Current Electricity, Modern Physics & Ray Optics. Numerical-based questions were easy. Overall, this section was balanced as per students.
- Chemistry: Easy to Moderate. Inorganic Chemistry was given more weightage compared to Physical & Organic Chemistry. Numerical Based questions were mostly from Physical Chemistry : Solutions, Electrochemistry, Chemical Kinetics, and Ionic Equilibrium. Questions were also asked from Chemistry in Everyday Life, p & d block, Phenols, and Coordination Compounds. Some mixed-concept questions were asked in Organic Chemistry involving Amines, Aldehydes & Ketones, Biomolecules, and Polymers. Some students reported matching the following questions in Inorganic Chemistry as time-consuming and tricky. Organic Chemistry was reported as tricky.