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JEE Main Jan 24 Shift 1 Question Paper

Physics – JEE Main 2026 (24 January Shift 1)

1. In a hydrogen-like atom, the ratio of speeds of an electron in two orbits is given as 3:2. Determine the ratio of the corresponding energies.
2. An electron is accelerated through a given potential difference. Calculate the de Broglie wavelength of the electron.
3. A ray optics problem is given where, using provided focal lengths and object distances, the position of the image or magnification needs to be calculated.
4. In a current electricity setup with resistors and source voltage provided, calculate either the current through a particular branch or the potential difference across a specified resistor.
5. A mechanics question involving motion under given force conditions is provided; use the motion relations to find the required quantity.
6. A problem involving electric field or potential due to a charge configuration is given; calculate the field or potential at a specified point.
7. A question is given from modern physics or semiconductor physics where a specific property such as energy transition or device behaviour needs to be determined.

Chemistry – JEE Main 2026 (24 January Shift 1)

1. A salt analysis question where specific cations are to be identified based on the data provided.

2. A coordination chemistry question requiring determination of a property such as oxidation state, hybridisation, or magnetic behaviour for given complexes.
3. A physical chemistry numerical problem involving equilibrium or buffer solution calculations is given; find the required value.
4. An organic chemistry reaction sequence is given; identify the final major product after applying the given reagents.
5. A question based on periodic trends or compound properties is provided; choose the correct result from the given options.
6. A thermochemistry numerical requiring calculation of enthalpy change or energy variation using provided data is given.
7. A mixed-concept chemistry question combining ideas from both physical and inorganic chemistry topics is presented.

Mathematics – JEE Main 2026 (24 January Shift 1)

1. Evaluate a definite integral provided in the question or use it to determine another related quantity.
2. A calculus question involving limits or derivatives of a specified function is provided; find the required value.
3. A coordinate geometry problem is given requiring calculation of distance, locus, or point of intersection based on the equations or coordinates provided.
4. A sequences and series question is given; calculate either the sum of terms or a specific term under the provided conditions.
5. A vectors or three-dimensional geometry problem involving dot product, cross product, or angle between vectors is given; determine the required result.
6. A probability question is provided requiring computation of probability based on given conditions.
7. An algebraic problem involving solving an equation, determining the number of real roots, or working with matrices/determinants is given.



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