



ISC

CLASS 12

SCIENCE

Class 12 Chemistry

Official CISCE Class XII Chemistry curriculum covering Solutions, Electrochemistry, Chemical Kinetics, Coordination Compounds, Haloalkanes, Carbonyl Compounds, Amines, and Biomolecules.

GOVERNING BOARD

ISC

THEORY EXAMINATION

70 Marks

INTERNAL / PRACTICAL

30 Marks (Practical)

EXAM DURATION

3 Hours

UNIT-WISE SYLLABUS & MARKS BREAKDOWN

UNIT	CHAPTERS & PRESCRIBED TOPICS	MARKS
Physical Chemistry	Solutions, Electrochemistry & Kinetics Colligative properties, van 't Hoff factor; Nernst equation, electrolytic conductance, Kohlrausch law; Rate equations, zero and first order kinetics, Arrhenius activation energy	25
Inorganic Chemistry	d- & f-Block and Coordination Compounds Transition metals oxidation states, catalytic and magnetic properties; Crystal Field Theory, IUPAC nomenclature, isomerism in complexes	14
Organic Chemistry	Haloalkanes, Oxygen & Nitrogen Compounds SN1 & SN2 mechanisms; Alcohols, Phenols, Ethers; Aldehydes, Ketones, Carboxylic acids (Aldol, Cannizzaro); Amines (diazonium chemistry); Biomolecules (carbohydrates, proteins, DNA/RNA)	31

INTERNAL / PRACTICAL ASSESSMENT SCHEME (30 MARKS (PRACTICAL))

EVALUATION COMPONENT	MARKS WEIGHTAGE
Titration (Volumetric Analysis) Redox titration (KMnO ₄) or acid-base titration	07 Marks
Qualitative Analysis Identification of two cations and two anions in given salt mixture	10 Marks
Formal Project & Record Book Investigatory project report and approved laboratory journal	08 Marks
Viva Voce External examiner oral examination	05 Marks

RECOMMENDED REFERENCE LITERATURE

Prescribed Textbooks: ISC Chemistry Class 12 (K.L. Chugh / Kalyani), Nootan ISC Chemistry, Excellence Chemistry Compendium

THE EXCELLENCE TUITION EDGE

Every unit in this curriculum is taught with structured conceptual lectures, followed by weekly speed-testing, detailed mistake analysis, and dedicated 1:1 doubt-clearing sessions to build board exam confidence.

