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CHAPTER NOTES

NEET 2027 Chemistry Hot Topics - Chapter-Wise Weightage & Important Topics

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NEET 2027 Chemistry Hot Topics - Chapter-Wise Weightage & Important Topics

NEET 2027 Chemistry - Hot Topics Analysis based on 2021–2025 paper trends. Chemistry carries **180 marks (45 questions)**, split nearly equally between Class 11 and Class 12 (roughly 50–55% Class 12, 45–50% Class 11). Three verticals - Physical, Inorganic, Organic - each get ~15 questions. Focus on these 20 chapters to cover 85%+ of likely questions.

NEET 2027 exam date: expected early May 2027. Total marks: 720. Negative marking: -1 per wrong answer.

Hot Topics Ranked by Weightage (2021–2025)

Coordination Compounds - 6.94% weightage (Class 12, Inorganic)

Key concepts: Werner's theory, IUPAC nomenclature, isomerism, CFT, crystal field splitting, colour of complexes

Question pattern: Naming, geometry (tetrahedral/square planar/octahedral), magnetic moment. 3 questions typical.

Hydrocarbons - 6.63% weightage (Class 11, Organic)

Key concepts: Alkanes, alkenes, alkynes, aromatic compounds, Markovnikov rule, reactions of benzene

Question pattern: Reaction mechanisms, product prediction, electrophilic substitution. 3 questions.

Solutions - 6.33% weightage (Class 12, Physical)

Key concepts: Molarity, molality, Raoult's law, colligative properties, van't Hoff factor

Question pattern: Elevation in BP, depression in FP, osmotic pressure. 3 questions.

Chemical Bonding and Molecular Structure - 6.12% weightage (Class 11, Inorganic)

Key concepts: VSEPR, hybridisation, MO theory, bond parameters, hydrogen bonding

Question pattern: Shape/hybridisation prediction, bond order, dipole moment. 3 questions.

Classification of Elements and Periodicity in Properties - 5.57% weightage (Class 11, Inorganic)

Key concepts: Modern periodic law, trends in atomic radius, IE, EA, electronegativity

Question pattern: Trend-based comparisons, anomalous behaviour. 2–3 questions.

Organic Chemistry - Some Basic Principles and Techniques - 5.44% weightage (Class 11, Organic)

Key concepts: IUPAC nomenclature, inductive/resonance effects, reaction intermediates, types of reactions

Question pattern: Stability of carbocations, nomenclature, hyperconjugation. 2-3 questions.

Thermodynamics - 5.15% weightage (Class 11, Physical)

Key concepts: First law, enthalpy, entropy, Gibbs free energy, spontaneity

Question pattern: Hess's law, bond enthalpy, ΔG calculations. 2-3 questions.

Structure of Atom - 5.12% weightage (Class 11, Physical)

Key concepts: Bohr model, quantum numbers, orbitals, Heisenberg principle, electronic configuration

Question pattern: Quantum numbers, shape of orbitals, Aufbau/Hund. 2-3 questions.

Chemical Kinetics - 4.73% weightage (Class 12, Physical)

Key concepts: Rate law, order, molecularity, Arrhenius equation, half-life

Question pattern: First-order reaction problems, activation energy. 2 questions.

Aldehydes, Ketones and Carboxylic Acids - 4.70% weightage (Class 12, Organic)

Key concepts: Preparation, nucleophilic addition, aldol, Cannizzaro, acidity of COOH

Question pattern: Product prediction, mechanism, distinguishing tests. 2-3 questions.

Haloalkanes and Haloarenes - 4.28% weightage (Class 12, Organic)

Key concepts: SN_1 , SN_2 , E_1 , E_2 mechanisms, optical activity, aryl halides

Question pattern: Reactivity order, mechanism-based questions. 2 questions.

Alcohols, Phenols and Ethers - 4.28% weightage (Class 12, Organic)

Key concepts: Preparation, acidity of phenols, Kolbe, Reimer-Tiemann, Williamson synthesis

Question pattern: Acidity comparison, named reactions. 2 questions.

Equilibrium - 4.0% weightage (Class 11, Physical)

Key concepts: K_c , K_p , Le Chatelier, ionic equilibrium, pH, buffer, K_{sp}

Question pattern: Buffer pH, solubility product, degree of ionisation. 2 questions.

Organic Compounds Containing Nitrogen (Amines) - 3.8% weightage (Class 12, Organic)

Key concepts: Preparation, basicity, Hoffmann, Gabriel synthesis, diazonium salts

Question pattern: Basicity order, diazonium reactions. 2 questions.

d- and f-Block Elements - 3.5% weightage (Class 12, Inorganic)

Key concepts: Transition metals, lanthanide contraction, oxidation states, KMnO_4 , $\text{K}_2\text{Cr}_2\text{O}_7$

Question pattern: Magnetic moment, colour, oxidising behaviour. 2 questions.

Biomolecules - 3.2% weightage (Class 12, Organic)

Key concepts: Carbohydrates, proteins, nucleic acids, enzymes, vitamins

Question pattern: Classification, structure-based questions. 1-2 questions.

p-Block Elements (Groups 15-18) - 3.2% weightage (Class 12, Inorganic)

Key concepts: Nitrogen family, oxygen family, halogens, noble gases - preparation and properties

Question pattern: Interhalogen compounds, acid strength, oxoacids. 2 questions.

Redox Reactions - 2.8% weightage (Class 11, Physical)

Key concepts: Oxidation number, balancing equations, disproportionation

Question pattern: Balancing, n-factor. 1 question.

Electrochemistry - 2.8% weightage (Class 12, Physical)

Key concepts: Galvanic cells, Nernst equation, conductance, electrolysis, batteries

Question pattern: EMF calculation, Faraday's laws. 1-2 questions.

States of Matter - 2.5% weightage (Class 11, Physical)

Key concepts: Gas laws, kinetic theory, ideal gas equation, real gases

Question pattern: Gas law numerical, van der Waals. 1 question.

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