

11th CHEMISTRY METS

Most Expected Topics for Boards-2025

STOICHIOMETRY

- 1). Mole Ratio & Molar Volume in Stoichiometric Calculations
- 2). Limiting & Non-Limiting Reactant
- 3). Theoretical Yield, Actual Yield & Percent Yield
- 4). Exercise Questions + our Guess Papers

ATOMIC STRUCTURE

- 1). Bohr's Derivation of Radius & Energy of atom
- 2). Hydrogen Spectrum
- 3). Plank's Quantum Theory
- 4). X-rays
- 5). Quantum Numbers
- 6). Exercise Questions + Our Guess Papers

THEORIES OF COVALENT BONDING

- 1). Application of VSEPR**
- 2). VBT (Hybridization)**
- 3). Application of MOT**
- 4). Dipole moment & ionic Character**
- 5). Effect of Bonding on the Properties of Compounds**
- 6). Exercise Questions + Our Guess Papers**

GASES

- 1). Charles's Law (Absolute Zero)**
- 2). Ideal Gas Equations & Unit of R.**
- 3). Deviation of Real Gases from Ideal Behavior**
- 4). Van Der Waal's Equation.**
- 5). Applications of Dalton's Law of partial Pressure**
- 6). Exercise Questions + Our Guess Papers**

LIQUIDS

- 1). Types of intermolecular Forces.**
- 2). Evaporation.**

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3). Boiling Point.

4). Viscosity.

5). Liquid Crystals

6). Exercise Questions + Our Guess Papers

SOLIDS

1). Properties of crystalline Solids:

(Isomorphism, Polymorphism, Anisotropy, Allotropy, Transition Temperature)

2). Structure of NaCl.

3). Lattice Energy

4). Difference between Ionic & Covalent Crystal

5). Exercise Questions + Our Guess Papers

CHEMICAL EQUILIBRIUM

1). Equilibrium Expression involving K_c , K_p , K_x & K_n

2). Le-Chatelier's Principle & Industrial application Haber's Process.

3). Common Ions Effects & Solubility Products

4). Exercise Questions + Our Guess Papers

ACIDS, BASES & SALTS:

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1). Conjugate Acids & Bases

2). Strong & Weak Acids, Bases

3). Relationship Between (K_a & K_b) and (pK_a & pK_b)

4). Buffer Solution & Applications

5). Exercise Questions + Our Guess Papers

CHEMICAL KINETICS:

1). Rate & Order of reaction

2). Factors affecting rate of reaction.

3). Collision theory & Transition States

4). Catalysis & its types

5). Exercise Questions + Our Guess Papers

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SOLUTION AND COLLOIDS:

1). Concentrations & its Units (Molarity, Molality, Mole Fraction & Parts per Million)

2). Raoult's Law

3). Colligative Properties (Lowering of Vapour Pressure, Elevation of Boiling Point, Depression of Freezing Point & Osmotic Pressure)

4). Exercise Questions + Our Guess Papers

THERMOCHEMISTRY:

1). First Law of Thermodynamics.

2). Hess's Law & Born Haber Cycle

3). Exercise Questions + Our Guess Papers

ELECTROCHEMISTRY:

1). Balancing of Redox Equation by oxidation number method & by Ion Electron method

2). Galvanic Cell

3). Standard Hydrogen Electrode (SHE)

4). Batteries

5). Activity Series

6). Exercise Questions + Our Guess Papers

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