**CHEMISTRY**

For Class-XI

**1. STOICHIOMETRY**

 Introduction

 1.1 Mole and Avogadro’s Number

1.2 Mole Calculations

1.3 Percentage Composition

1.4 Excess and Limiting Reagents

1.5 Theoretical Yield and Actual Yield as percentage

**2. ATOMIC STRUCTURE**

Introduction

2.1 Discharge Tube Experiments

2.2 Application of Bohr’s Model

2.2.1 Derivation of Radius, Energy, Frequency, Wave Length, Wave Number

2.2.2 Spectrum of Hydrogen Atom

2.2.3 Defects of Bohr’s Theory

2.3 Planck’s Quantum Theory\_

2.3.1 Postulates With Derivation of E =hcν

2.4 X-Rays

2.4.1 Production, Properties and Uses

2.4.2 Types

2.4.3 X-rays and Atomic Number

2.4.4 Moseley’s Experiment

2.4.5 Moseley’s Law

2.5 Quantum Numbers and Orbitals

2.5.1 Principle Quantum Number

2.5.2 Azimuthal Quantum Number

2.5.3 Magnetic Quantum Number

2.5.4 Spin Quantum Number

2.5.5 Shapes of s, p and d Orbitals

2.6 Electronic Configuration

2.6.1 Aufbau Principle

2.6.2 Pauli’s Exclusion Principle

2.6.3 Hund’s Rule

2.6.4 Electronic Configurations

**3. THEORIES OF COVALENT BONDING AND SHAPES OF MOLECULES**

Introduction

3.1 Shapes of molecules

3.1.1 VSEPR

3.1.2 Resonance

3.2 Theories of covalent bonding

3.2.1 VBT and hybridization

3.2.2 MOT

3.3 Bond Characteristics

3.3.1 Bond Energy

3.3.2 Bond Length

3.3.3 Ionic Character

3.3.4 Dipole Moment

3.4 Effect of Bonding on Physical and Chemical Properties

3.4.1 Solubility of Ionic and Covalent Compounds

3.4.2 Reactions of Ionic and Covalent Compounds

3.4.3 Directional and Non Directional Nature of Ionic and Covalent Bonds

**4. STATES OF MATTER I: GASES**

Introduction

4.1 Kinetic Molecular Theory of Gases

4.1.1 Postulates of Kinetic Molecular Theory

4.1.2 Pressure and Its Units

4.2 Absolute Temperature Scale on the Basis of Charles Law

4.2.1 Brief recall of Boyle’s and Charles’ Law

4.2.2 Graphical Explanation of Absolute Zero

4.3 Avogadro’s Law

4.4 Ideal Gas Equation

4.4.1 Derivation

4.4.2 Gas Constant and its Units

4.5 Deviation From Ideal Gas Behavior

4.5.1 Graphical Explanation

4.5.2 Causes for Deviation

4.6 Van der Waals Equation

4.6.1 Volume Correction

4.6.2 Pressure Correction

4.7 Dalton’s Law of Partial Pressure

4.8 Graham’s Law of Diffusion and Effusion

4.9 Liquefaction of Gases

4.9.1 Joule-Thomson Effect

4.9.2 Linde’s Method of Liquefaction of Gases

4.10 Fourth State of Matter: Plasma

**5. STATES OF MATTER II: LIQUIDS**

Introduction

5.1 Kinetic Molecular Interpretation of Liquids

5.1.1 Simple properties of Liquids Describing Diffusion, Compression, Expansion, Motion of Molecules, Kinetic Energy

5.2 Intermolecular Forces (Vander Waals Forces)

5.2.1 Dipole-Dipole interaction

5.2.2 Hydrogen Bonding

5.2.3 London Forces

5.3 Energetics of Phase Changes

5.3.1 Molar Heat of Fusion, Molar Heat of Vaporization, Molar Heat of Sublimation

5.3.2 Energy Changes and Intermolecular Attractions

5.3.3 Change of State and Dynamic Equilibrium

5.4 Liquid Crystals

5.4.1 Brief Description

5.4.2 Uses from Daily Life

**6. STATES OF MATTER III: SOLIDS**

Introduction

6.1 Kinetic Molecular Interpretation of Solids

6.1.1 Simple Properties of Solids Describing Vibration of Molecules, Intermolecular Forces, Kinetic Energy

6.2 Types of Solids

6.2.1 Amorphous

6.2.2 Crystalline

6.3 Properties of Crystalline Solids

6.3.1 Symmetry

6.3.2 Geometrical Shape

6.3.3 Melting Point

6.3.4 Cleavage Plane

6.3.5 Habit of Crystal

6.3.6 Crystal Growth

6.3.7 Anisotropy

6.3.8 Isomorphism

6.3.9 Polymorphism

6.3.10 Allotropy

6.3.11 Transition Temperature

6.4 Crystal Lattice

6.4.1 Unit Cell

6.4.2 NaCl Crystal

6.4.3 Lattice Energy

6.5 Types of Crystalline Solids

6.5.1 Ionic Solids

6.5.2 Covalent Solids

6.5.3 Metallic Solids

6.5.4 Molecular Solids

**7. CHEMICAL EQUILIBRIUM**

Introduction

7.1 Reversible Reactions and Dynamic Equilibrium

7.1.1 Concept and Explanation

7.1.2 Law of Mass Action and Expression for Equilibrium Constant

7.1.3 Relationship between Kc, Kp, Kx, Kn

7.1.4 Importance of K and Reaction Quotient

7.2 Factors Affecting Equilibrium ( Le-Chatelier’s Principle )

7.2.1 Effect of Change in Concentration

7.2.2 Effect of Change in Pressure or Volume

7.2.3 Effect of Change in Temperature

7.3 Industrial Application of Le-Chatelier’s Principle (Haber’s Process)

7.4 Solubility Product and Precipitation Reactions

7.5 Common Ion Effect

**8. ACIDS, BASES AND SALTS**

Introduction

8.1 Acidic, Basic and Amphoteric Substances

8.2 Bronsted-Lowery Definitions of Acids and Bases

8.2.1 Proton Donors and Acceptors

8.2.2 Relative Strength of Acids and Bases

8.3 Conjugate Acid-Base Pairs

8.4 Expressing the Strength of Acids and Bases

8.4.1 Ionization Equation of Water

8.4.2 pH, pOH and pKw

8.4.3 Acid Ionization Constant, Ka and pKa

8.4.4 Leveling Effect

8.4.5 Base Ionization Constant, Kb and pKb

8.4.6 Relationship of Ka and Kb

8.5 Lewis Definitions of Acids and Bases

8.6 Buffer Solutions and their Applications

8.7 Salt Hydrolysis

**9. CHEMICAL KINETICS**

Introduction

9.1 Chemical Kinetics

9.2 Rates of Reactions

9.2.1 Rate law or Rate Expression

9.2.2 Elementary and overall Rate Constant and Units

9.2.3 Order of Reaction and its Determination

9.2.4 Factors Affecting Rate of Reaction

9.3 Collision Theory, Transition State and Activation Energy

9.4 Catalysis

9.4.1 Characteristics of Catalysts

9.4.2 Homogeneous Catalysis

9.4.3 Heterogeneous Catalysis

9.4.4 Enzyme Catalysis

**10. SOLUTIONS AND COLLOIDS**

Introduction

10.1 General Properties of Solutions

10.1.1 Solution, Suspension and Colloids

10.1.2 Hydrophilic and Hydrophobic Molecules

10.1.3 The Nature of Solutions in Liquid Phase

10.1.4 The Effect of Temperature and Pressure on Solubility

10.2 Concentration Units

10.2.1 Percent

10.2.2 Molarity

10.2.3 Molality

10.2.4 Mole fraction

10.2.5 Parts per million, billion, and trillion

10.3 Raoult’s Law

10.3.1 Non-Volatile Non- -Electrolyte Solutes in Volatile solvents

10.3.2 When both Components are Volatile

10.4 Colligative Properties of dilute Solutions

10.4.1 Vapour Pressure Lowering

10.4.2 Boiling Point Elevation and Freezing Point Depression

10.4.3 Molar Mass Determination by Vapor Pressure Lowering, Boiling Point Elevation and Freezing Point Depression

10.4.4 Osmotic Pressure and Reverse Osmosis

10.5 Colloids

10.5.1 Properties of Colloids

10.5.2 Types of Colloids

**11. THERMOCHEMISTRY**

Introduction

11.1 Energy in Chemical Reactions

11.2 Thermodynamics

11.3 Internal Energy

11.4 First Law of Thermodynamics

11.5 Standard State and Standard Enthalpy Changes

11.6 Heat Capacity

11.7 Calorimeter

11.8 Hess’s Law: Enthalpy Change Calculations

11.9 Born Haber Cycle

**12. ELECTROCHEMISTRY**

Introduction

12.1 Oxidation-Reduction Concepts

12.1.1 Oxidation and Reduction

12.1.2 Oxidation Numbers

12.1.3 Recognizing Oxidation Reduction Reactions

12.1.4 Balancing Oxidation Reduction Equations by Oxidation Number Method

12.1.5 Balancing Oxidation Reduction Equations by the Half Reaction Method

12.1.6 Chemistry of Some Important Oxidizing and Reducing Agents

12.2 Electrode, Electrode Potential and Electrochemical Series

12.3 Types of Electrochemical Cells

12.3.1 Electrolytic Cells

12.3.2 Electrolysis of Aqueous NaCl

12.3.3 Voltaic Cells

12.3.3.1 Standard State Cell Potential for Voltaic Cell

12.3.3.2 Standard State Reduction Half Cell Potential

12.3.3.3 Standard State Cell Potentials and Spontaneous Reaction

12.3.4 Batteries

12.3.4.1 Primary Batteries

12.3.4.2 Secondary Batteries

12.3.4.3 Fuel Cells

12.3.5 Corrosion and its Prevention

**Prescribed textbook**

A textbook of Chemistry for Class-XI

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