# WEST BENGAL COUNCIL OF HIGHER SECONDARY EDUCATION SYLLABUS FOR CLASSES XI AND XII SUBJECT: CHEMISTRY (CHEM)

CLASS - XI

SEMESTER - I

SUBJECT: CHEMISTRY (CHEM)

**FULL MARKS: 35** 

**CONTACT HOURS: 70 Hours** 

**COURSE CODE: THEORY** 

Sub-topics

| UNIT<br>No. | TOPICS  | CONTACT<br>HOURS | MARKS |
|-------------|---|------------------|-------|
| Unit - 1    | Some Basic Concepts of Chemistry:  Laws of chemical combination. Concept of elements, atoms and molecules.  Atomic and molecular masses. Mole concept and molar mass, percentage composition, empirical and molecular formula, chemical reactions, stoichiometry and calculations based on stoichiometry. Different concentration terms of solutions and related calculations.  | 07               | 03    |
| Unit - 2    | Structure of Atom:  Bohr's model and its limitations, concept of shell and sub-shells, the dual nature of matter and light, de Broglie's relationship. Heisenberg uncertainty principle, Schrödinger wave equation (elementary idea only). Concept of orbitals, quantum numbers, shapes of s, p and d orbitals, rules for filling electrons in orbitals: Aufbau principle, Pauli exclusion principle and Hund's rule, exchange energy, electronic configuration of atom, stability of half-filled, completely filled orbitals.  | 12               | 06    |
| Unit - 3    | Classification of Elements and Periodicity in Properties:  Modern periodic law and the present form of the periodic table, periodic trends in properties of elements – atomic radii, ionic radii, van der Waals' radii, ionization enthalpy, electron gain enthalpy, electronegativity, valency.  Nomenclature of elements with atomic number greater than 100.   | 07               | 04    |
| Unit - 4    | Chemical Bonding and Molecular Structure:  Valence electrons, ionic bond, bond parameters, covalent bond, Lewis structure, polar character of covalent bond, covalent character of ionic bond, valence bond theory, resonance, geometry of covalent molecules, VSEPR theory, concept of hybridisation, involving s, p and d orbitals and shapes of some simple molecules, intermolecular interactions, Hydrogen bonding, Molecular orbital theory of homonuclear diatomic molecules (H <sub>2</sub> , He <sub>2</sub> , O <sub>3</sub> , N <sub>2</sub> , F <sub>2</sub> – qualitative idea only) | 13               | 06    |

## **All Syllabus Class 8 West Bengal Board**

**Disha Experts** 

All Syllabus Class 8 West Bengal Board:

#### Decoding All Syllabus Class 8 West Bengal Board: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "All Syllabus Class 8 West Bengal Board," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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