

HSSC-I | CLASS 11

Study Bees Official

Chemistry HSSC-I | Class 11

Federal Board (FBISE) | 2026

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All Chapters • COMPLETE SYLLABUS

IMPORTANT: Ch 2, 3, 4, 7, 8, 9, 15, 16, 17, 20, 21

Quantum Numbers

Halogens

Chemical bonding Acid-Base

Chemical Kinetics

Organic

H₂O

NaCl

CH₄H₂SO₄CO₂C₆H₆

NaOH

HNO₃

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IMPORTANT CHAPTERS: 2, 3, 4, 7, 8, 9, 15, 16, 17, 20, 21

CHAPTER 03

Atomic Structure

★ IMPORTANT

- Quantum Numbers
- Rules for Electronic Configuration
- Electronic Configuration
- Shapes of Orbitals
- Mass Spectrometry (Imp)

CHAPTER 03

Chemical Bonding

★ IMPORTANT

- VSEPR
- VBT
- MOT (Molecular Orbital Theory)
- Hybridization
- Difference B/w Sigma & Pi Bond
- Intermolecular Forces (IMF)

CHAPTER 04

Stoichiometry

- Mole, Molar Volume & Molarity
- Limiting & Excess Reactant
- Theoretical and Actual Yield
- Examples 4.3, 4.6, 4.7, 4.8, 4.9, 4.10 and 4.11
- Concept Assessment 4.3, 4.4, 4.5 & 4.6

CHAPTER 05

States & Phases

of matter

- Evaporation
- Vapour Pressure
- Boiling Point
- Viscosity
- Surface Tension
- Types of Solids
- Properties of Crystalline Solids

CHAPTER#6 Energetics

short questions

- 1) Diff blw Endothermic & Exothermic
- 2) Standard Enthalpies
- 3) Example Pg 129,130 related numericals in exercise.
- 4) Explain entropy & it's signs of conventions
 - 1) long(Born haber cycle of Nacl & example 6.5)
 - 2) Hess's Law

CHAPTER 07

Chemical Kinetics

★ MOST IMPORTANT

- Rate, Rate Law and Order
- Determination of Order
- Half Life Period
- Mechanism
- Catalysis
- Potential Energy Diagram

CHAPTER 08

Chemical Equilibrium

★ IMPORTANT

- K_c Expression, Units, Law of Mass Action, Ways to Recognize Equilibrium
- Factors affecting Le-Chatelier's Principle
- Industrial Application

CHAPTER 09

Acid-Base Chemistry

★ IMPORTANT

- Conjugate Acid-Base Pair
- Ionization Constant for Acid (K_a) and Base (K_b)
- Buffer Solutions (Imp)
- Solubility Product (K_{sp})
- Precipitation
- Common Ion Effect (Imp)

Exercises + Concept Assessment

CHAPTER 10

Periodic Table

★ IMPORTANT

- Periods, Groups & Blocks
- Determination of Position of Elements
- Variation in Oxidation State and Acid-Base Behaviour (Imp)

CHAPTER 11

Nitrogen & Sulphur

- Formation of PAN

CHAPTER 12

Halogens

- Reactivity of Halogens
- Reaction with Hydrogen
- Reactivity of Halide Ions & Chlorination

CHAPTER 13

Environmental Chemistry**Air**

- Air Pollution
- Acid Rain
- Smog (Types)

CHAPTER 14

Water

- Conservation & Management of Water

CHAPTER 15

Organic Chemistry

★ IMPORTANT

- Homologous Series
- Nomenclature
- Isomerism
- Free Radical Substitution Rxn
- Determination of Empirical and Molecular Formula from Combustion Analysis

CHAPTER 16

Hydrocarbons

★ MOST IMPORTANT

- Classification of Hydrocarbons
- Preparation & Reactions of Alkenes
- Conjugation

CHAPTER 17

Halogenoalkanes

★ MOST IMPORTANT

- Preparation of R-X & Reactivity
- Nucleophilic Substitution Reactions with AgNO_3 , NH_3 , KOH , KCN

CHAPTER 18

Alcohols

- Preparation of Alcohols
- Reactions (Lucas Test + Oxidation)
- Iodoform Test

CHAPTER 19

Carbonyl Compounds

★ IMPORTANT

- Haloform Reaction
- Addition of HCN
- Test to Distinguish Carbonyl Compounds
- Esterification
- With 2,4-DNPH

CHAPTER 20
Amines

★ IMPORTANT

- Preparation & Basicity of Amines
- Diazonium Salt

CHAPTER 21
Organic Synthesis

★ MOST IMPORTANT

- Test to Identify Functional Group
- Ozonolysis of Alkynes
- Friedel Craft Alkylation & Acylation
- Concept Assessment 21.1 & 21.3
- Exercise

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★ Best of Luck! | Study Bees Official | FBISE 2026 ★