

**Class-XII**  
**CHEMISTRY**  
**Semester-I (Theory)**

**Time: 3 hrs**

**Theory: 70 Marks**  
**CCE/Internal Assessment: 10 Marks**

**DISTRIBUTION OF MARKS**

Unit I	Solid State	10
Unit II	Solution	10
Unit III	Electrochemistry	10
Unit IV	Chemical Kinetics	10
Unit V	Surface Chemistry	10
Unit VI	General Principles and Processes of Isolation of Elements	5
Unit VII	p- Block elements	<u>15</u>
	Total	<u>70</u>

**Semester -II (Theory)**

**Time: 3 hrs**

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**Theory: 70 Marks**  
**Practical: 30 Marks**  
**CCE/Internal Assessment: 20 Marks**

**DISTRIBUTION OF MARKS**

Unit I	d& f Block elements	10
Unit II	Coordination Compounds	8
Unit III	Haloalkanes and Haloarenes	8
Unit IV	Alcohols phenols and Ethers	10
Unit V	Aldehydes, ketones and carboxylic acid	10
Unit VI	Organic Compounds Containing Nitrogen	7
Unit VII	Biomolecules	7
Unit VIII	Polymers	5
IX	Chemistry in Everyday life	5
	Total	----- 70

**Semester-I (Practical)**

1. Surface Chemistry
2. Chemical kinetics
3. Thermochemistry
4. Electrochemistry
5. Chromatography
6. Determination of Concentration molarity of KMNO<sub>4</sub>

**Semester- II (Practical)**

1. Preparation of Inorganic compound.
2. Preparation of Organic Compound.
3. Test for functional groups present in organic compound
4. Study of Carbohydrates, fats, proteins
5. Qualitative Analysis

### Marks Distribution for Practicals

Volumetric Analysis	8
Mixture Analysis	9
Concept based Experiment	4
Project	4
Viva + Practical Note Book	5
Total Marks	----- 30

- Note: (i) Practical examination shall be conducted by the Board at the end of Semester-II from the whole syllabus. However, practical examination shall not be conducted at the end of Semester-I by the Board.
- (ii) Any further detail regarding the contents of the syllabus can be seen from the Senior Secondary Examination Syllabus for Class-XII published by Punjab School Education Board.

### Structure of Question paper (Theory)

Very short answer question	10x1=10
Short answer question (Short type one)	10x2=20
Short type two	10x3=30
Long answer type questions (Essay type)	2x5= 10

(With 100% Internal Choice)

### Suggestions

1. Answer to very short question should be one word or one sentence. (1 to 10 questions)
2. For short Answer type I (2 marks) question should not be divided into subparts.
3. For short Answers type II (3 marks) questions should be divided into only two parts (if needed)
4. Long Answer Questions (5 marks) can have maximum of three parts but must be from the same chapter
5. Every 5 marks question should have an alternate choice.
6. Total Weightage to numericals should be 30%