

QUESTION PAPER DESIGN

Subject: Chemistry (313)

Course: Senior Secondary

Maximum Marks: 80

Time: 3 Hrs.

1. Weightage by Objectives			
S. No.	Objectives	Marks	% of Total Mark
1.	Knowledge	20	25
2.	Understanding	36	45
3.	Application	24	30
Total		80	100

2. Weightage to Forms of Questions			
Forms of Questions	No. of Question	Marks per question	Total Marks
Objective Type Questions			
1 Marks MCQ	16 [#]	1	16
2×12=24 Marks Objective type (with two sub-points each are of 1 marks) (Fill in the blanks, match the column, paragraph or case-based Questions, one-word questions, true False, etc.)	12 ^{##}	2	24
Total	28		40
Subjective Type Questions			
Very Short Answer (VSA) - 2	9 [*]	2	18
Short Answer (SA) - 3	4 ^{**}	3	12
Long Answer (LA) - 5	2 ^{***}	5	10
Total	15		40
Grand Total	43		80

Note:

- ✓ [#] 8 questions will have internal choices.
- ✓ ^{##} Alternative questions to be given in the question part.
- ✓ ^{*} 4 questions will have internal choices.
- ✓ ^{**} 2 questions will have internal choices.
- ✓ ^{***} 2 questions will have internal choices.

3. Weightage to Content Areas

S. No.	Module	Marks
1.	Some Basic Concepts of Chemistry	04
2.	Atomic Structure and Chemical Bonding	10
3.	States of Matter	08
4.	Chemical Energetics	06
5.	Chemical Dynamics	12
6.	Chemistry of Elements	18
7.	Chemistry of Organic Compounds	18
8.	Chemistry in Everyday Life	04
Total		80

4. Difficulty level of Question Paper

Level	Marks	% of marks given
Difficult	16	20
Average	40	50
Easy	24	30
Total	80	100

Bifurcation of Syllabus (2023)

Course:- Sr. Secondary

Subject:- Chemistry Code:- - (313)

Total no. of Lessons= 32		
MODULE (No. & name)	TMA (40%)	Public Examination (60%)
	(No. of lessons-12)	OBJECTIVE/SUBJECTIVE (No. of lessons-20)
1. Some Basic concepts of Chemistry	-	Chapter-1 (Atoms, Molecules and Chemical Arithmetic)
2. Atomic Structure and Chemical Bonding	Chapter-3 (Periodic Table and Periodicity in Properties)	Chapter-2 (Atomic Structure) Chapter-4 (Chemical Bonding) -
3. States of Matter	Chapter-5 (The Gaseous State and Liquid State) Chapter-6 (The Solid State) Chapter-8 (Colloidal)	- Chapter-7 (Solutions)
4. Chemical Energetics	Chapter-10 (Spontaneity of Chemical Reactions)	- Chapter-9 (Chemical Thermodynamics)
5. Chemical Dynamics	Chapter-11 (Chemical Equilibrium) Chapter-14 (Chemical Kinetics) Chapter-15 (Adsorption and Catalysis)	- Chapter-12 (Ionic Equilibrium) Chapter-13 (Electrochemistry) Chapter-18 (General Characteristics of p-Block Elements)
6. Chemistry of Elements	Chapter-16 (Occurrence and Extraction of Metals) Chapter-19 (p-Block Elements and their Compounds-I)	Chapter-17 (Hydrogen and s-Block Elements) Chapter-20 (p-Block Elements and their Compounds-II) Chapter-21 d-Block and f-Block Elements Chapter-22 (Coordination Compounds)
7. Chemistry of Organic Compounds	-	Chapter-23 (Nomenclature and General Principles) Chapter-24 (Hydrocarbons) Chapter-28 (Compounds of Carbon Containing Nitrogen) Chapter-25 (Compounds of Carbon Containing Halogens) Chapter-26 (Alcohols, Phenols and Ethers) Chapter-27 (Aldehydes, Ketones and Carboxylic Acids) Chapter-29 (Biomolecules)
8. Chemistry in Everyday Life	Chapter-30 (Drugs and Medicines)	Chapter-31 (Soaps, Detergents and Polymers)