QUESTION PAPER DESIGN

Subject: Chemistry (313) Course: Senior Secondary Maximum Marks: 80 Time: 3 Hours.

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 subpoints each are of 1 marks)	12	2	24
	(Fill in the blanks, match the column, paragraph or case-based Questions, one-word questions, true False, etc.)			
	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:

- *4 questions will have internal choices.
 ** 2 questions will have internal choices.
- ***2 questions will have internal choices.

. Weig	htage to Content A	reas	
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 Eve	ryday Life	04
	Tot	al	80
Diffi	culty level of Questi	on 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 (313)

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