

Question Paper Part	Question Type	Number of Questions	Marks
PART - A	MCQ	15/15	15/15
PART - A	Fill in the blank	05/05	05/05
PART -B	Short Answer (SA = 02 Marks)	05/09	10/18
PART - C	Short Answer (SA = 03 Marks) Inorganic Chemistry	03/05	09/15
	Short Answer (SA = 03 Marks) Physical Chemistry	03/06	09/18
PART- D	Long Answer (LA = 05Marks)	02/04	10/20
PART - E	Small Answer (SA = 03Marks) Numerical problems	04/08	12/24
	Total	37/52	115

WEIGHTAGE

Objectives	Number of Questions	Marks	Percentage
Remember	22	46	40%
Understanding	15	34	30%
Apply	07	17	14%
HOTS	08	18	16%
TOTAL	52	115	100%

SUBJECT: CHEMISTRY (34)
BLUE PRINT
CLASS: I PUC

Chapter/ Content domain/ Unit/ Theme	Number of Hours	Marks	Remember ($\approx 40\%$)				Understand ($\approx 30\%$)				Apply (≈ 15 TO 20%)				HOTS (≈ 10 TO 15%)			
			VSA (01 Mark)	SA (02 Marks)	SA (03 Marks)	LA	VSA (01 Mark)	SA (02 Marks)	SA (03 Marks)	LA	VSA (01 Mark)	SA (02 Marks)	SA (03 Marks)	LA	VSA (01 Mark)	SA (02 Marks)	SA (03 Marks)	LA
Physical Chemistry																		
Some Basic Concepts of Chemistry	11	11	1	-	1 (NP)	-	1	-	1 (T)	-	-	-	-	-	-	-	1 (NP)	-
Structure of Atom	13	13	1	-	1 (T)	-	-	-	1 (T)	-	-	-	1 (NP)	-	-	-	1 (NP)	-
Thermodynamics	15	14	1	-	1 (T)	-	1	-	1 (NP)	-	-	1	-	-	1	-	1 (NP)	-
Equilibrium	18	17	1	1	1 (T)	-	2	-	1 (T)	-	-	-	-	-	-	-	2 (NP)	-
Inorganic Chemistry																		
Classification of Elements & Periodicity in Properties	06	06	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Chemical Bonding and Molecular Structure	17	16	1	-	1	-	-	1	1	-	1	1	1	-	1	-	-	-
Redox Reactions	06	06	1	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
Organic Chemistry																		
Organic chemistry - Some Basic Principles and Techniques	18	17	2	1	-	1	-	1	-	-	1	-	-	1	-	-	-	-
Hydrocarbons	16	15	1	1	-	1	1	-	-	1	-	-	-	-	1	-	-	-
Total Teaching Hours and Marks	120	115	10	08	18	10	05	06	18	05	02	04	06	05	03	00	15	00
			45				35				17				18			
Total Questions	52		10	04	06	02	05	03	06	01	02	02	02	01	03	00	05	00

1. Weightage = Total marks/Number of teaching hours = $115/120 = 0.96$ (i.e., 0.96marks for each hour)

2. Choice = out of 52 Questions only 37 Questions are to be answered.

Note: T = Theory; NP = Numerical Problems; VSA = Very Short Answer (MCQ's and Fill in the Blanks); SA= Short Answer; LA = Long Answer

GENERAL GUIDE LINES:

1. Questions should not be vague and ambiguous. Answers should be available in the prescribed NCERT text book or based on the contents in the prescribed text book.
2. Intermixing of questions of different units is not allowed. 5 marks question may be framed as (3+2) as far as possible.
3. Avoid questions from:
 - a. Drawings involving 3D diagrams
 - b. The boxed materials with deep yellow bar in the text book are to bring additional life to the topic and are non-evaluative.
4. Questions on numerical data given in the form of appendix, numbered tables containing experimental data and life history of scientists given in the chapters should be avoided.
5. Frame the questions in such a way to strictly avoid $\frac{1}{2}$ mark evaluation (or avoid value points for $\frac{1}{2}$ marks.).
6. While framing Physical chemistry units (Unit 1, 2, 3 & 4) questions for Part -A, B and C should not be Numerical problems. The Numerical Problems of these Units should be framed only in Part-E. This division is done to make for the students to learn and attempt to solve the Numerical Problems.
7. Application and HOTS (Higher Order Thinking Skills) questions can be selected from any chapter without changing the weightage of the chapter.