

# DESIGN OF QUESTION PAPER

Subject : **CHEMISTRY**  
Paper : Theory  
Class : XI  
Full Mark : 70  
Time : 3 Hours

<b>I</b>	<b>WEIGHTAGE TO OBJECTIVES:</b>					
	<b>Objectives</b>			<b>Marks</b>	<b>Percentage</b>	
	Knowledge (K)			14	20	
	Understanding (U)			35	50	
	Application (A) Including Analysis, Synthesis and Evaluation			21	30	
<b>Total :</b>			<b>70</b>	<b>100</b>		
<b>II</b>	<b>WEIGHTAGE TO FORM OF QUESTIONS:</b>					
	<b>Form of Questions</b>		<b>No. of Question</b>	<b>Time (in minute)</b>	<b>Marks</b>	<b>Percentage</b>
	Essay/Long Answer(E/LA)		3	60	15	21
	Short Answer(SA-I)		7	42	21	30
	Short Answer(SA-II)		10	40	20	29
	Very Short Answer(VSA)		10	30	10	14
	MCQ		4	8	4	6
<b>Total:</b>		<b>34</b>	<b>180</b>	<b>70</b>	<b>100</b>	
<b>III</b>	<b>WEIGHTAGE TO CONTENT:</b>					
	<b>UNIT/CONTENTS:</b>				<b>Marks</b>	
	1	Some basic concepts of Chemistry			18	
	2	Structure of Atom				
	3.	Classification of Elements and Periodicity in Properties				
	4	Chemical Bonding and Molecular Structure				
	5	States of Matter : Gases and Liquids			16	
	6	Thermodynamics				
	7	Equilibrium				
	8	Redox reactions			18	
	9	Hydrogen				
	10	s - Block elements				
	11	Some p-block elements				
	12	Organic Chemistry :Some basic Principles and Techniques			18	
	13	Hydrocarbons				
14	Environmental chemistry					
<b>Total :</b>				<b>70</b>		
<i>Note: A minimum of 3 marks must be allotted to each unit.</i>						
<b>IV</b>	<b>SCHEME OF SECTIONS : Nil</b>					
<b>V</b>	<b>SCHEME OF OPTIONS : Internal option may be given in Essay Type Question only.</b>					
<b>VI</b>	<b>DIFFICULTY LEVEL :</b>					
	Difficulty	:	30%			
	Average	:	50%			
	Easy	:	20%			

**Abbreviation :** K(Knowledge), U(Understanding ), C(Comprehension), Exp.(Expression), Skill(S), E(Essay Type), SA (Short Answer Type), VSA (Very Short Answer Type), MCQ(Multiple Choice Question)

# DESIGN OF QUESTION PAPER

Subject : **CHEMISTRY**  
Paper : Theory  
Class : XII  
Full Mark : 70  
Time : 3 Hours

WEIGHTAGE TO OBJECTIVES :						
I	Objectives			Marks	Percentage	
	Knowledge (K)			14	20	
	Understanding (U)			35	50	
	Application (A) Including Analysis, Synthesis and Evaluation			21	30	
	<b>Total :</b>			<b>70</b>	<b>100</b>	
WEIGHTAGE TO CONTENT:						
II	Form of Questions	No. of Question	Time (in minute)	Marks	Percentage	
	Essay/Long Answer(E/LA)	3	60	15	21	
	Short Answer(SA-I)	7	42	21	30	
	Short Answer(SA-II)	10	40	20	29	
	Very Short Answer(VSA)	10	30	10	14	
	MCQ	4	8	4	6	
	<b>Total:</b>		<b>34</b>	<b>180</b>	<b>70</b>	<b>100</b>
	WEIGHTAGE TO CONTENT:					
				Marks		
UNIT/CONTENTS:						
III	1	Solid State			23	
	2	Solutions				
	3.	Electrochemistry				
	4	Chemical Kinetics				
	5	Surface chemistry				
	6	General Principles and Process of Isolation of Elements				
	7	p- Block elements			19	
	8	d- and f- Block elements				
	9	Co- ordination compounds				
	10	Haloalkanes and Haloarenes			18	
	11	Alcohols, Phenols and Ethers				
	12	Aldehydes, Ketones and Carboxylic acids				
	13	Amines				
	14	Bio molecules			10	
	15	Polymers				
	16	Chemistry in everyday life				
<b>Total :</b>				<b>70</b>		
<i>Note: A minimum of 3 marks must be allotted to each unit.</i>						
IV	<b>SCHEME OF SECTIONS : NIL</b>					
V	<b>SCHEME OF OPTIONS : Internal option may be given in Essay Type Question only.</b>					
VI	<b>DIFFICULTY LEVEL :</b>					
	<b>Difficulty :</b>	<b>30%</b>				
	<b>Average :</b>	<b>50%</b>				
	<b>Easy :</b>	<b>20%</b>				

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