

# DESIGN OF QUESTION PAPER

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

<b>WEIGHTAGE TO OBJECTIVES</b>					
<b>I</b>	<b>Objectives</b>			<b>Marks</b>	<b>Percentage</b>
	Knowledge (K)			14	20
	Understanding (U)			32	46
	Application (A)			21	30
	Skill (S)			3	4
	<b>Total :</b>			<b>70</b>	<b>100</b>
<b>WEIGHTAGE TO FORM OF QUESTIONS:</b>					
<b>II</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>WEIGHTAGE TO CONTENT:</b>					
<b>III</b>	<b>UNIT/CONTENTS :</b>			<b>Marks</b>	<b>Percentage</b>
	1	Physical World and Measurement		3	5
	2	Kinematics		10	14
	3	Laws of Motion		10	14
	4	Work, Energy and Power		6	9
	5	Motion of Systems of Particles and Rigidity Body		6	9
	6	Gravitation		5	7
	7	Properties of Bulk Matter		10	14
	8	Thermodynamics		5	7
	9	Behaviours of Perfect Gas and Kinetics Theory		5	7
	10	Oscillations and Waves		10	14
<b>Total :</b>			<b>70</b>	<b>100</b>	
<b>IV</b>	<b>SCHEME OF SECTIONS :</b> Nil				
<b>V</b>	<b>SCHEME OF OPTIONS :</b> Internal option may be given in LA Type of Questions only.				
<b>VI</b>	<b>DIFFICULTY LEVEL :</b> Difficulty : 30% marks Average : 50% marks Easy : 20% marks				

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

<b>WEIGHTAGE TO OBJECTIVES</b>						
	<b>Objectives</b>	<b>Marks</b>	<b>Percentage</b>			
<b>I</b>	Knowledge (K)	14	20			
	Understanding (U)	32	46			
	Application (A)	21	30			
	Skill (S)	3	4			
	<b>Total :</b>		<b>70</b>	<b>100</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>	
<b>II</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>WEIGHTAGE TO CONTENT:</b>					
	<b>UNIT/CONTENTS :</b>	<b>Marks</b>	<b>Percentage</b>			
<b>III</b>	1   Electrostatics	8	11			
	2   Current Electricity	7	10			
	3   Magnetic Effects of Current and Magnetism	8	11			
	4   Electromagnetic Induction and Alternating Current	8	11			
	5   Electromagnetic Waves	3	5			
	6   Optics	14	20			
	7   Dual Nature of Matter and Radiations	4	6			
	8   Atoms and Nuclei	6	9			
	9   Electronic Devices	7	10			
	10   Communication Systems	5	7			
	<b>Total :</b>		<b>70</b>	<b>100</b>		
<b>IV</b>	<b>SCHEME OF SECTIONS :</b> Nil					
<b>V</b>	<b>SCHEME OF OPTIONS :</b> Internal option may be given in LA Type of Questions only.					
<b>VI</b>	<b>DIFFICULTY LEVEL :</b>					
	Difficulty	:	30% marks			
	Average	:	50% marks			
	Easy	:	20% marks			

**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)