

DESIGN OF QUESTION PAPER

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

WEIGHTAGE TO OBJECTIVES :						
	Objectives	Marks	Percentage			
I.	Knowledge (K)	14	20			
	Understanding (U)	35	50			
	Application (A)	21	30			
	Total :	70	100			
WEIGHTAGE TO FORM OF QUESTIONS :						
	Form of Questions	No. of Questions	Time (in minutes)	Marks	Percentage	
II.	Essay/Long Answer (E/LA)	2	75	26	37	
	Short Answer (SA-I)	2	50	19	27	
	Short Answer (SA-II)	4	50	20	29	
	MCQ	5	5	5	7	
	Total :	13	180	70	100	
WEIGHTAGE TO CONTENTS :						
	Unit	CONTENTS :		Marks	Percentage	
III.	PLANE GEOMETRY					
	1	i)	Construction of lines, angle, rectilinear figures		4	6
		ii)	Construction of Circles, Semi-circle and Tangents		6	9
		iii)	Construction of ellipse, Parabola, involute, cycloid, helix and sine curve		6	9
	SOLID GEOMETRY					
	2	i)	Orthographic-Projection of points, lines Laminae (Plane) figures		12	17
		ii)	Section of Solid figures		15	21
	MACHINE DRAWING					
	3	i)	Orthographic-Projection of simple machine blocks		12	17
		ii)	Isometric- Projection of laminate (plane) figures		10	14
		iii)	Development of surfaces		5	7
	Total :				70	100
	IV.	SCEHEME OF SECTION : Nil				
V.	SCHEME OF OPTION : Nil					
VI.	DIFFICULTY LEVEL :					
	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)

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WEIGHTAGE TO OBJECTIVES :						
	Objectives	Marks	Percentage			
I.	Knowledge (K)	14	20			
	Understanding (U)	35	50			
	Application (A)	21	30			
	Total :	70	100			
WEIGHTAGE TO FORM OF QUESTIONS :						
	Form of questions	No. of Questions	Time (in minutes)	Marks	Percentage	
II.	Essay/Long Ans. (E/LA)	1	60	28	40	
	Short Ans. (SA-I)	2	50	21	30	
	Short Ans. (SA-II)	3	65	16	23	
	MCCQ	5	5	5	7	
	Total :	11	180	70	100	
WEIGHTAGE TO CONTENTS :						
	Unit / Content:	Marks	Percentage			
III.	I	Isometric projection of solids	25	36		
	II.	A	Machine Drawing			
		B	Drawing of Machine parts	15	21	
			Sectional view of assembly / disassembly of Machine parts	30	43	
			1. Bearing			
			2. Rod Joints			
			3. Tie- rod and Pipe joints			
			4. Couplings			
		5. Pulleys				
	Total :		70	100		
IV.	SCEHEME OF SECTIONS : Nil					
V.	SCHEME OF OPTIONS : Nil					
VI.	DIFFICULTY LEVEL : 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)