

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)	28	40			
	Application (A)	28	40			
	Skill (S)					
	Total :	70	100			
WEIGHTAGE TO FORM OF QUESTIONS:						
	Form of Questions	No. of Question	Time (in minute)	Marks	Percentage	
II	Essay/Long Answer(E/LA)	2	75	26	37.14	
	Short Answer (SA-I)	2	50	19	27.14	
	Short Answer(SA-II)	4	50	20	28.58	
	MCQ	5	5	5	7.14	
	Total:	13	180	70	100	
WEIGHTAGE TO CONTENT:						
	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) and Solids		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 laminae (plane) figures		10	14
iii)		Development of surfaces.		5	7	
Total :				70	100	
IV	SCHEME OF SECTIONS : Nil					
V	SCHEME OF OPTIONS : Nil					
VI	DIFFICULTY LEVEL :					
	Difficulty	:	20%			
	Average	:	50%			
	Easy	:	30%			

Abbreviation: K(Knowledge), U(Understanding), A(Application), 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)	9	12.86			
	Understanding (U)	20	28.57			
	Application (A)	13	18.57			
	Skill (S)	28	40			
	Total :	70	100			
WEIGHTAGE TO FORM OF QUESTIONS:						
	Form of Questions	No. of Question	Time (in minute)	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	22.86	
	MCQ	5	5	5	7.14	
	Total:	13	180	70	100	
	WEIGHTAGE TO CONTENT:					
	UNIT/CONTENTS :			Marks	Percentage	
III	I	Isometric projection of solids			25	35.71
	II	Machine Drawing				
	A	Drawing of Machine parts			15	21.42
	B	Sectional view of assembly/disassembly of Machine parts			30	42.87
	1	Bearing				
	2	Rod Joints				
	3	Tie-rod and Pipe joints				
	4	Couplings				
5	Pulleys					
Total :				70	100	
IV	SCHEME OF SECTIONS : Nil					
V	SCHEME OF OPTIONS : Nil					
VI	DIFFICULTY LEVEL :					
	Difficulty	:	20%			
	Average	:	50%			
	Easy	:	30%			

Abbreviation: K(Knowledge), U(Understanding), A(Application), Skill(S), E(Essay Type),
 SA(Short Answer Type), VSA(Very Short Answer Type), MCQ(Multiple Choice Question)