

DESIGN OF QUESTION PAPER

Subject : MATHEMATICS

Class : XI

Time : 3 Hours

Full Marks : 100

WEIGHTAGE TO OBJECTIVE						
I	Objectives			Marks	percentage	
	Knowledge			25	25	
	Understanding			55	55	
	Application			15	15	
	Skill			05	05	
	Total :			100	100	
WEIGHTAGE TO FORM OF QUESTIONS:						
II	Form of Questions		No. of question	Time (in minute)	Marks	percentage
	Essay/Long Answer (E/LA)		6	65	36	36
	Short Answer (SA-I)		8	58	32	32
	Short Answer (SA-II)		9	32	18	18
	Very Short Answer (VSA)		10	18	10	10
	MCQ		4	7	4	4
	Total:		37	180 m	100	100
WEIGHTAGE TO CONTENT:						
III	CONTENTS			Marks	percentage	
	I	1.1	Sets, Relations and Functions	13	13	
		1.2	Trigonometric functions	16	16	
	II	2.1	Complex Numbers, Quadratic Equations and Linear Inequalities	13	13	
		2.2	Permutations & Combinations, Mathematical Induction and Binomial Theorem	15	15	
		2.3	Sequence and Series	9	9	
	III	3.1	Straight lines	6	6	
		3.2	Circle, Conic Section and Introduction to Three-dimensional Geometry	7	7	
	IV	4.1	Limits and Derivatives	6	6	
	V	5.1	Mathematical Reasoning	3	3	
	VI	6.1	Statistics and Probability	12	12	
	Total :			100	100	
	IV SCHEME OF SECTIONS: Nil					
V SCHEME OF OPTIONS: Internal option in Essay type only may be given						
VI DIFFICULTY LEVEL:						
Difficulty:		20%				
Average		50%				
Easy:		30%				

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