

Class IX

Table 1: Number of Student Learning Outcomes by Cognitive Level

Topic no	Topics	No. of Sub-topics	SLO's		Total	
			K	U	A	
1	Real and Complex Numbers	6	7	11	5	23
2	Sets and Functions	6	6	9	5	20
3	Logarithms	5	1	4	3	8
4	Algebraic Expressions and Algebraic Formulae	4	6	5	11	22
5	Factorization	4	2	1	4	7
6	Variations	4	2	4	5	11
7	Matrices and Determinants	6	9	7	16	32
8	Basic Statistics	4	0	6	9	15
9	Congruent Triangles	1	0	1	1	2
10	Parallelogram and Triangles	1	0	1	1	2
11	Line Bisectors and Angle Bisectors	1	0	1	1	2
12	Sides and Angles of a triangle	1	0	1	1	2
13	Application of Ratio and Proportion in Geometrical Theorems	1	0	1	1	2
14	Practical Geometry-Triangles	2	0	0	2	2
	Total	46	33	52	65	150
	Percentage		22	34	44	100

Table 2: Allocation of Marks for the Objective Test and Constructed Response Paper

Class: I X

Topic No.	Topic	No. of Sub-Topics	Objective Test	Constructed Response Paper	Total
1	Real and Complex Numbers	6	4	4	8
2	Sets and Functions	6	4	4	8
3	Logarithms	5	1	3	4
4	Algebraic Expressions and Algebraic Formulae	4	3	4	7
5	Factorization	4	2	5	7
6	Variations	4	3	4	7
7	Matrices and Determinants	6	3	5	8
8	Basic Statistics	4	3	4	7
9	Congruent Triangles	1	3	4	7
10	Parallelogram and Triangles	1	-	-	-
11	Line Bisectors and Angle Bisectors	1	4	4	8
12	Sides and Angles of a triangle	1	-	-	-
13	Application of Ratio and Proportion in Geometrical Theorems	1	-	-	-
14	Practical Geometry-Triangles	2	-	4	4
	Total	46	30	45	75

Table 3: Paper Specifications
Class IX

Topic	Topics No.	Marks Distribution		Total Marks
1.	Real and Complex Numbers	MCQ's 4 @1 Mark *CRQ's 2@ 4 Marks Chose any ONE from TWO		8
2.	Sets and Functions	MCQ's 4 @ 1 Mark *CRQ's 2@ 4 Marks Chose any ONE from TWO		8
3.	Logarithms	MCQ 1 @1 Mark CRQ 1 @ 3 Marks		4
4.	Algebraic Expressions and Algebraic Formulae	MCQ's 3 @1 Mark *CRQ's 2 @ 4 Marks Chose any ONE from TWO		7
5.	Factorization	MCQ's 2 @ 1 Mark *CRQ's 2@ 5 Marks Chose any ONE from TWO		7
6.	Variations	MCQ's 3 @ 1 Mark *CRQ's 2 @ 4 Marks Chose any ONE from TWO		7
7.	Matrices and Determinants	MCQ's 3 @ 1 Mark CRQ 1 @ 5 Marks		8
8.	Basic Statistics	MCQ's 3 @ 1 Mark CRQ 1 @ 4 Marks		7
9.	Congruent Triangles	MCQ's 3 @ 1 Mark CRQ 1 @ 4 Marks		7
10.	Parallelogram and Triangles			
11.	Line Bisectors and Angle Bisectors	MCQ's 4 @ 1 Mark *CRQ's 2 @ 4 Marks Chose any ONE from TWO		8
12.	Sides and Angles of a triangle			
13.	Application of Ratio and Proportion in Geometrical			
14.	Practical Geometry-Triangles	CRQ 1 @ 4 Marks		4
	Total Marks	MCQ's 30	CRQ's 45	75

Important Notes:

4.1 Tables indicate the number and nature of SLO's in each topic in classes IX and X respectively. This will serve as a guide in the construction of the examination paper. It also indicates that more emphasis has been given to the Understanding (34% in IX and 30% in X), Application and higher order skills (44% in IX and 50% in X) to discourage rote memorization. Tables 1 and 4, however, do not translate directly into marks.

4.2 There will be two examinations, one at the end of Class IX and one at the end of Class X.

4.3 In each class, the theory paper will be in two parts: paper I and paper II. Both papers will be administered within 3 hours

4.4 Paper I theory will consist of 30 compulsory, multiple choice items. These questions will involve four response options.

4.5 Paper II theory will carry 45 marks and consist of a number of compulsory, constructed response questions. There will be no choice among the topics in constructed response questions but it may be within the topic.

4.6 All constructed response questions will be in a booklet which will also serve as an answer script.