

MATHEMATICS (SCIENCE)

CHAPTER	FOCUS AREA
1. SETS	1.2 Sets and their representations
	1.6 Subsets
	1.10 Operations on sets
	1.11 Complement of a set.
	1.12 Practical problems of union and intersection on two sets.
2. RELATIONS AND FUNCTIONS	2.3 Relations
	2.4.1 Some of functions and their graphs
3. TRIGONOMETRIC FUNCTIONS	3.3 Trigonometric functions
	3.4 Trigonometric functions of sum and difference of two angles.
4. PRINCIPLE OF MATHEMATICAL INDUCTION	4.3 Principle of Mathematical induction [Problems involving equalities only.]
5. COMPLEX NUMBERS AND QUADRATIC EQUATIONS	5.3 Algebra of complex numbers
6. LINEAR INEQUALITIES	6.5 Solution of system of linear inequalities in two variables.
7. PERMUTATIONS AND COMBINATIONS	7.2 Fundamental principle of counting
	7.4 Combinations.
8. BINOMIAL THEOREM	8.2 Binomial theorem for positive integral indices
9. SEQUENCES AND SERIES	9.5 Geometric progression (GP).

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10. STRAIGHT LINES	10.2.2 Condition for parallelism and perpendicularity of a line in terms of their slopes.
	10.3.5 Intercept form
	10.4 General equation of a line. [Excluding 10.4.1(c) Normal form]
11. CONIC SECTIONS	11.4 Parabola
	11.5 Ellipse
12. INTRODUCTION TO THREE DIMENSIONAL GEOMETRY	12.3 Coordinates of a point in space
	12.4 Distance between two points
13. LIMITS AND DERIVATIVES	13.3 Limits
	13.5.1 Algebra of derivatives of a function
	13.5.2 [Excluding derivatives of trigonometric functions]
14. MATHEMATICAL REASONING	14.3.1 Negation of statements
	14.5.1 Contrapositive and converse
15. STATISTICS	15.5 Variance and Standard deviation
16. PROBABILITY	16.4.2 Probabilities of equally likely outcomes
	16.4.3 Probability of the event 'A or B'.
	16.4.4 Probability of event 'not A'.