Contents

• Pre	vious Year's Solved Paper				
1. Algebra		3–48	3.5.	Ellipse	114
1.1.	Complex Numbers	3	3.6.	Hyperbola	119
1.2.	Arithmetic, Geometric and			rdinate Geometry of	
	Harmonic Progressions	8		ee Dimensions	124–138
1.3.	Theory of Equation	15		or Algebra	139–149
1.4.	Permutation and Combination	n 21	6. Diffe	rential Calculus	150–172
1.5.	Binomial Theorem	26	6.1.	Function, Limit, Contin	nuity
1.6.	Exponential Series	30		and Differentiability	150
1.7.	Logarithmic Series	33	6.2.	Differentiation	157
1.8.	Determinants	35	6.3.	Maxima, Minima, Incr	•
1.0.			<i>c</i> 1	and Decreasing Function Rolle's Theorem and M	
	Matrix	41	6.4.	Value Theorem	ean 169
. 8		19–82			173–189
2.1.	Trigonometrical Functions	40	7. Integ 7.1.	Indefinite Integration	173–169
2.2	and their Graphs	49	7.1. 7.2.	Definite Integral	182
2.2.	Trigonometrical Ratios and Identities	50	7.2.	Areas under Simple Cu	
2.3.	General Solutions of Trigono			•	190–204
2.3.	metrical Equations	- 61	8.1.	rential Equations Formation of Differenti	
2.4.	Relation between the Sides		0.1.	Equations	190
	and Angles of a Triangle	65	8.2.	Order and Degree of	
2.5.	Inverse Trigonometrical			Differential Equation	193
	Functions	70	8.3.	Solution of Differential	
2.6.	Height and Distance	75		Equations by Separation Variables Method	n or 195
3 Co-o	rdinate Geometry 83	3–123	8.4.	Homogeneous Form of	
3.1.	Co-ordinate Geometry of)—1 <i>2</i> J	0	Differential Equations	199
3.1.	Two Dimensions Rectangular	•	8.5.	Differential Equations	of
	Cartesian Co-ordinates and	L		First Order	201
	Straight Lines	83	9. Statistics		205–214
3.2.	Pair of Straight Lines	92	9.1.	Probability	205
3.2.	Circle	92 99	9.2.	Correlation and Regres	
				nerical Methods	215–222
3.4.	Parabola	109	11. Line	ear Programming	223–228