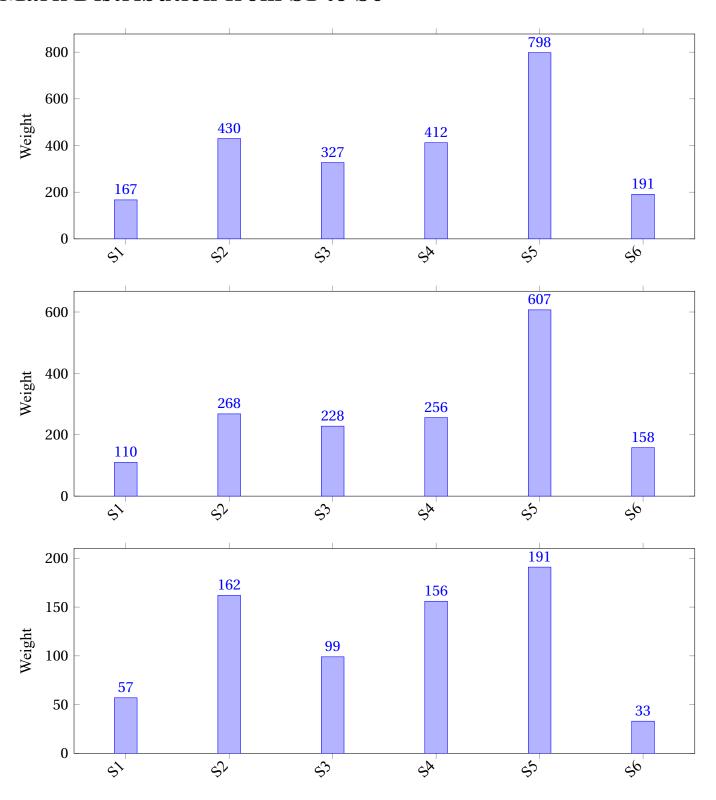
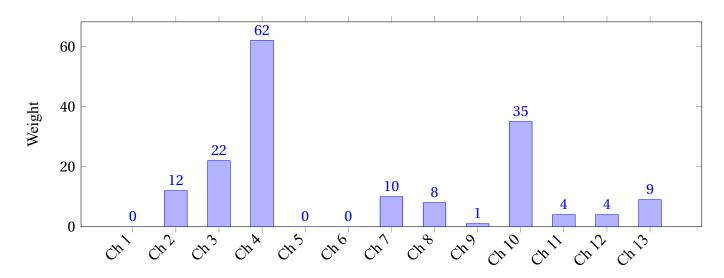
Statistics on DSE Questions

Mark Distribution from S1 to S6



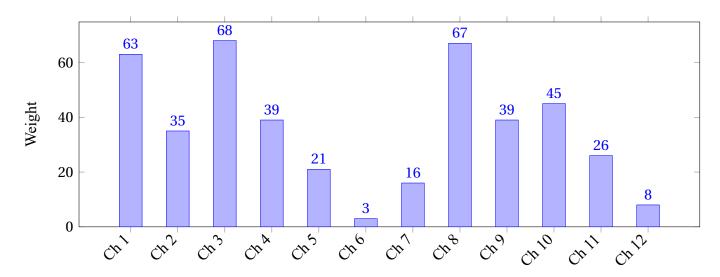
S1 Chapters

Ch 1.	Directed Numbers and the Number Line	P.10
Ch 2.	Introduction to Algebra	P.12
Ch 3.	Algebraic Equations in One Unknown	P.14
Ch 4.	Percentages (I)	P.16
Ch 5.	Estimation in Numbers and Measurement	P.18
Ch 6.	Introduction to Geometry	P.19
Ch 7.	Symmetry and Transformation	P.21
Ch 8.	Areas and Volumes (I)	P.22
Ch 9.	Congruence and Similarity	P.23
Ch 10.	Introduction to Coordinates	P.25
Ch 11.	Angles related to Lines	P.27
Ch 12.	Manipulation of Simple Polynomials	P.28
Ch 13.	Introduction of Statistics and Statistical Diagrams	P 30



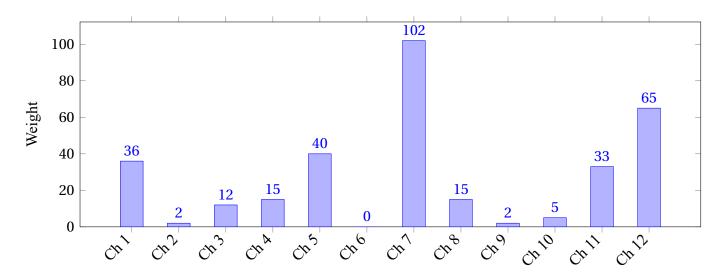
S2 Chapters

Ch 1.	Rate and Ratio	P.34
Ch 2.	Identities and Factorization	P.36
Ch 3.	Algebraic Fractions and Formulas	P.38
Ch 4.	Approximation and Errors	P.40
Ch 5.	Angles related to Rectilinear Figures	P.42
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Ch 7.	Linear Equations in Two Unknowns	P.46
Ch 8.	Laws of Integral Indices	P.48
Ch 9.	Introduction to Deductive Geometry	P.50
Ch 10.	Pythagoras' Theorem and Irrational Numbers	P.52
Ch 11.	Areas and Volumes (II)	P.54
Ch 12.	Trigonometric Ratios	P.56



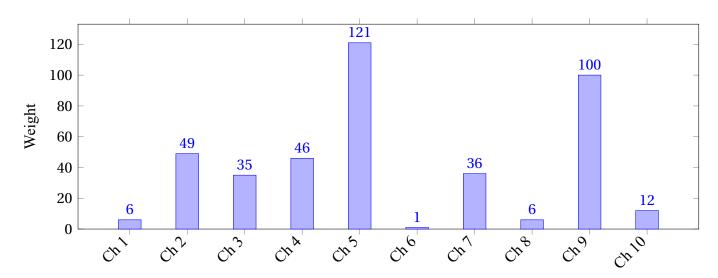
S3 Chapters

Ch 1.	More about Factorization of Polynomials	P.60
Ch 2.	Linear Inequalities in One Unknown	P.62
Ch 3.	Percentages (II)	P.63
Ch 4.	Special Lines and Centres in a Triangle	P.65
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Ch 6.	More about 3-D Figures	P.69
Ch 7.	Areas and Volumes (III)	P.71
Ch 8.	Coordinate Geometry of Straight Lines	P.73
Ch 9.	Trigonometric Relations	P.75
Ch 10.	Applications of Trigonometry	P.76
Ch 11.	Measures of Central Tendency	P.78
Ch 12.	Introduction to Probability	P.80



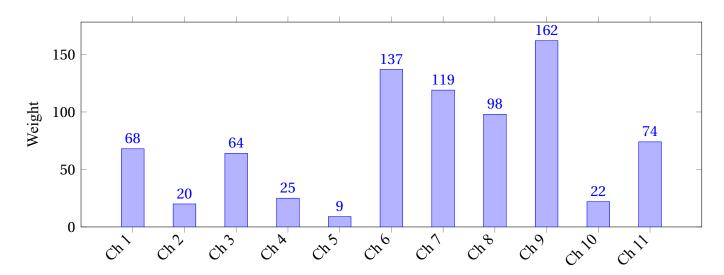
S4 Chapters

Ch 1.	Quadratic Equations in One Unknown (I)	P.84
Ch 2.	Quadratic Equations in One Unknown (II)	P.86
Ch 3.	Functions and Graphs	P.88
Ch 4.	Equations of Straight Lines	P.90
Ch 5.	More about Polynomials	P.92
Ch 6.	Exponential Functions NF	P.94
Ch 7.	Logarithmic Functions NF	P.95
Ch 8.	More about Equations NF	P.97
Ch 9.	Variations	P.99
Ch 10.	More about Trigonometry	P.101



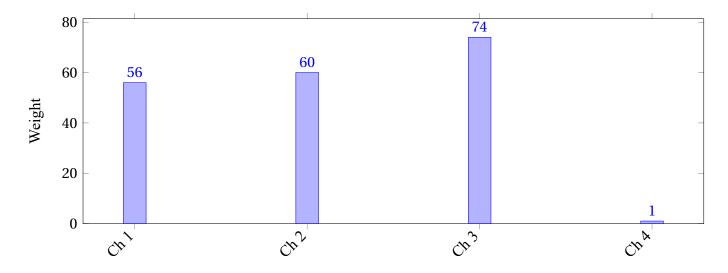
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Ch 1.	Basic Properties of Circles	P.105
Ch 2.	Tangents to Circles NF	P.107
Ch 3.	Inequalities	P.109
Ch 4.	Linear Programming NF	P.111
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Ch 9.	Measures of Dispersion	P.121
Ch 10.	Permutation and Combination NF	P.124
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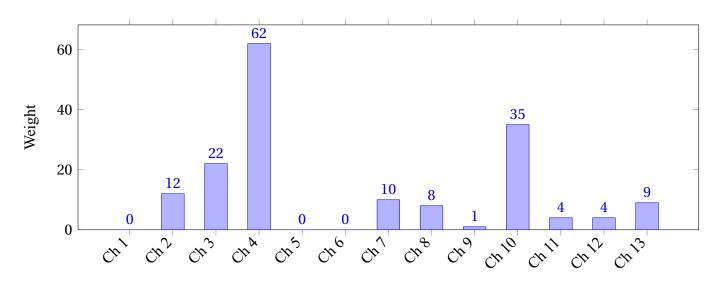
Ch 1.	Arithmetic and Geometric Sequences	P.130
Ch 2.	Summation of Arithmetic and Geometric Sequences NF	P.132
Ch 3.	More about Graphs of Functions	P.134
Ch 4.	Uses and Abuses of Statistics	P.136

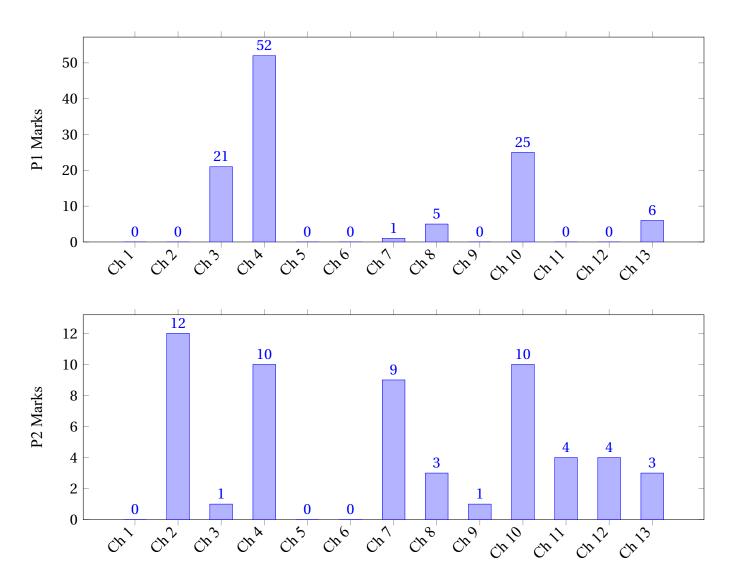


S1 Chapters

Chapter List

Ch 1.	Directed Numbers and the Number Line	P.10
Ch 2.	Introduction to Algebra	P.12
Ch 3.	Algebraic Equations in One Unknown	P.14
Ch 4.	Percentages (I)	P.16
Ch 5.	Estimation in Numbers and Measurement	P.18
Ch 6.	Introduction to Geometry	P.19
Ch 7.	Symmetry and Transformation	P.21
Ch 8.	Areas and Volumes (I)	P.22
Ch 9.	Congruence and Similarity	P.23
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Ch 13.	Introduction of Statistics and Statistical Diagrams	P.30





Directed Numbers and the Number Line

Section List

- Sec 1.1 Concept of Directed Numbers
- Sec 1.2 Addition and Subtraction of Directed Numbers
- Sec 1.3 Multiplication and Division of Directed Numbers
- Sec 1.4 Mixed Operations of Directed Numbers

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 1.1																
Sec 1.2																
Sec 1.3																
Sec 1.4																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 1.1																
Sec 1.2																
Sec 1.3																
Sec 1.4																

	1.1	1.2	1.3	1.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A				
Paper 2 - B				
Cross Topic				

S1-Ch1 P. 11

Introduction to Algebra

Section List

Sec 2.1 Algebra Language

Sec 2.2 Formulas and Method of Substitution

Sec 2.3 Number Patterns

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 2.1																
Sec 2.2																
Sec 2.3																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 2.1																
Sec 2.2																
Sec 2.3	1		1		1	1	1	1	1	1	1	1	1	1		

DSE Question Table

	2.1	2.2	2.3
Paper 1 - A(1)			
Paper 1 - A(2)			
Paper 1 - B			
Paper 2 - A			Samp-P2-Q11
			2012-P2-Q12
			2014-P2-Q14
			2015-P2-Q13
			2016-P2-Q14
			2017-P2-Q13
			2018-P2-Q12
			2019-P2-Q14
			2020-P2-Q12
			2021-P2-Q13
			2022-P2-Q14
			2023-P2-Q14
Paper 2 - B			
Cross Topic			

S1-Ch2 P. 13

Algebraic Equations in One Unknown

Section List

- Sec 3.1 Algebraic Equations in One Unknown
- Sec 3.2 More about Solving Equations
- Sec 3.3 Applications of Algebraic Equations in One Unknown

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 3.1																
Sec 3.2																
Sec 3.3	4		4			4		4		2			3			

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 3.1																
Sec 3.2																
Sec 3.3					1											

DSE Question Table

	3.1	3.2	3.3
Paper 1 - A(1)			Samp-P1-Q5
			2012-P1-Q5
			2015-P1-Q7
			2017-P1-Q4
			2022-P1-Q2
Paper 1 - A(2)			
Paper 1 - B			
Paper 2 - A			2014-P2-Q8
Paper 2 - B			
Cross Topic			2019-P1-Q7

S1-Ch3 P. 15

Percentages (I)

Section List

Sec 4.1 Simple Problems on Percentages

Sec 4.2 Percentage Change

Sec 4.3 Profit and Loss

Sec 4.4 Discount

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 4.1																
Sec 4.2			4		2		4	1			4					
Sec 4.3	4															
Sec 4.4		4			4	4			5	4		4	4		4	

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 4.1			1									1			1	
Sec 4.2		1			1											
Sec 4.3	1	1		1							1					
Sec 4.4														1		

	4.1	4.2	4.3	4.4
Paper 1 - A(1)		2012-P1-Q4	Samp-P1-Q4	Prac-P1-Q4
		2016-P1-Q5		2014-P1-Q6
		2020-P1-Q5		2015-P1-Q6
				2018-P1-Q7
				2019-P1-Q5
				2021-P1-Q6
				2022-P1-Q5
				2024-P1-Q6
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A	2012-P2-Q8	2014-P2-Q9	Samp-P2-Q10	2023-P2-Q11
	2021-P2-Q9		Prac-P2-Q10	
	2024-P2-Q11		2013-P2-Q10	
			2020-P2-Q9	
Paper 2 - B				
Cross Topic		Prac-P2-Q11		
		2014-P1-Q5		
		2017-P1-Q8		

S1-Ch4 P. 17

Estimation in Numbers and Measurement

Section List

Sec 5.1 Introduction to Estimation

Sec 5.2 Estimation in Measurement

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 5.1																
Sec 5.2																

DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 5.1																
Sec 5.2																

DSE Question Table

	5.1	5.2
Paper 1 - A(1)		
Paper 1 - A(2)		
Paper 1 - B		
Paper 2 - A		
Paper 2 - B		
Cross Topic		

Introduction to Geometry

Section List

Sec 6.1 Basic Elements of Geometry

Sec 6.2 Plane Figures

Sec 6.3 Construction of Geometric Figures

Sec 6.4 Three-Dimensional Figures

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 6.1																
Sec 6.2																
Sec 6.3																
Sec 6.4																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 6.1																
Sec 6.2																
Sec 6.3																
Sec 6.4																

	6.1	6.2	6.3	6.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A				
Paper 2 - B				
Cross Topic				

S1-Ch6 P. 20

Symmetry and Transformation

Section List

Sec 7.1 Symmetry

Sec 7.2 Transformation

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 7.1							1									
Sec 7.2																

DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 7.1		1	1	1		1	1		1							
Sec 7.2	1	1													1	

DSE Question Table

	7.1	7.2
Paper 1 - A(1)		
Paper 1 - A(2)		
Paper 1 - B		
Paper 2 - A	Prac-P2-Q24	Samp-P2-Q25
	2013-P2-Q15	2024-P2-Q24
	2016-P2-Q23	
	2018-P2-Q23	
Paper 2 - B		
Cross Topic	2012-P2-Q22	Prac-P2-Q25
	2015-P2-Q22	
	2016-P1-Q7	

Areas and Volumes (I)

Section List

Sec 8.1 Areas of Simple Polygons

Sec 8.2 Volumes and Total Surface Areas of Prisms

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 8.1																
Sec 8.2			5													

DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 8.1					1											
Sec 8.2							1					1				

DSE Question Table

	8.1	8.2
Paper 1 - A(1)		2012-P1-Q9
Paper 1 - A(2)		
Paper 1 - B		
Paper 2 - A		2016-P2-Q18
		2021-P2-Q15
Paper 2 - B		
Cross Topic	2014-P2-Q15	

Congruence and Similarity

Section List

Sec 9.1 Concept of Congruence

Sec 9.2 Conditions for Congruent Triangles

Sec 9.3 Concept of Similarity

Sec 9.4 Conditions for Similar Triangles

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 9.1																
Sec 9.2																
Sec 9.3																
Sec 9.4																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 9.1																
Sec 9.2																
Sec 9.3													1			
Sec 9.4																

	9.1	9.2	9.3	9.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A			2022-P2-Q18	
Paper 2 - B				
Cross Topic				

S1-Ch9 P. 24

Introduction to Coordinates

Section List

Sec 10.1 Introduction to Ordered Pairs

Sec 10.2 Rectangular Coordinate System

Sec 10.3 Distance between Two Points

Sec 10.4 Areas of Plane Figures

Sec 10.5 Transformations of Points on the Coordinate Plane

Sec 10.6 Polar Coordinate System

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 10.1																
Sec 10.2																
Sec 10.3																
Sec 10.4																
Sec 10.5	2				3			2								
Sec 10.6		4		4			2					4	4			

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 10.1																
Sec 10.2																
Sec 10.3																
Sec 10.4																
Sec 10.5	1	1								1		1				
Sec 10.6			1		1	1		1	1		1					

	10.1	10.2	10.3	10.4	10.5	10.6
Paper 1 - A(1)						Prac-P1-Q6
						2013-P1-Q6
						2021-P1-Q7
						2022-P1-Q7
Paper 1 - A(2)						
Paper 1 - B						
Paper 2 - A					Samp-P2-Q26	2020-P2-Q24
					Prac-P2-Q25	
					2019-P2-Q25	
					2021-P2-Q23	
Paper 2 - B						
Cross Topic					Samp-P1-Q8	2012-P2-Q23
					2014-P1-Q8	2014-P2-Q23
					2017-P1-Q6	2015-P2-Q23
						2016-P1-Q7
						2017-P2-Q25
						2018-P2-Q24

S1-Ch10 P. 26

Angles related to Lines

Section List

- Sec 11.1 Angles related to Intersecting Lines
- Sec 11.2 Angles related to Parallel Lines
- Sec 11.3 Identifying Parallel Lines

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 11.1																
Sec 11.2																
Sec 11.3																

DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 11.1																
Sec 11.2							1				1			1	1	
Sec 11.3																

DSE Question Table

	11.1	11.2	11.3
Paper 1 - A(1)			
Paper 1 - A(2)			
Paper 1 - B			
Paper 2 - A		2016-P2-Q15	
		2020-P2-Q19	
		2023-P2-Q18	
		2024-P2-Q19	
Paper 2 - B			
Cross Topic			

Manipulation of Simple Polynomials

Section List

Sec 12.1 Laws of Positive Integral Indices

Sec 12.2 Polynomials

Sec 12.3 Addition and Subtraction of Polynomials

Sec 12.4 Multiplication of Polynomials

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 12.1																
Sec 12.2																
Sec 12.3																
Sec 12.4																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 12.1																
Sec 12.2																
Sec 12.3																
Sec 12.4		1				1				1		1				

	12.1	12.2	12.3	12.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A				Prac-P2-Q1
				2015-P2-Q1
				2019-P2-Q1
				2021-P2-Q3
Paper 2 - B				
Cross Topic				

S1-Ch12 P. 29

Introduction of Statistics and Statistical Diagrams

Section List

- Sec 13.1 Introduction to Various Stages of Statistics
- Sec 13.2 Construction and Interpretation of Simple Statistical Diagrams
- Sec 13.3 Construction and Interpretation of Stem-and-Leaf Diagrams
- Sec 13.4 Construction and Interpretation of Scattered Diagrams
- Sec 13.5 Constructing Statistical Diagrams with Computer Software

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 13.1																
Sec 13.2	5							1								
Sec 13.3																
Sec 13.4																
Sec 13.5																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 13.1																
Sec 13.2				1	1											
Sec 13.3																
Sec 13.4				1												
Sec 13.5																

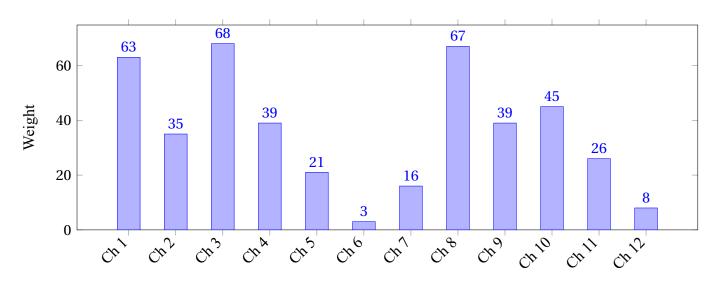
	13.1	13.2	13.3	13.4	13.5
Paper 1 - A(1)		Samp-P1-Q9			
Paper 1 - A(2)					
Paper 1 - B					
Paper 2 - A		2013-P2-Q30			
		2014-P2-Q29			
Paper 2 - B					
Cross Topic		2017-P1-Q7		2013-P2-Q28	

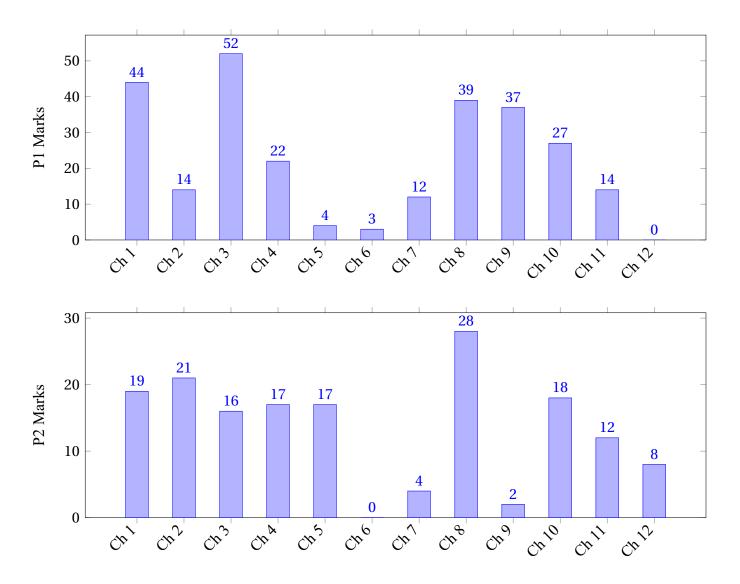
S1-Ch13 P. 31

S2 Chapters

Chapter List

Ch 1.	Rate and Ratio	P.34
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Ch 9.	Introduction to Deductive Geometry	P.50
Ch 10.	Pythagoras' Theorem and Irrational Numbers	P.52
Ch 11.	Areas and Volumes (II)	P.54
Ch 12.	Trigonometric Ratios	P.56





S2-Ch1

Rate and Ratio

Section List

Sec 1.1 Rates

Sec 1.2 Ratios

Sec 1.3 Applications of Ratios

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 1.1	7	7			6				5							
Sec 1.2		4								4	3			4	4	
Sec 1.3																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 1.1			1				1								1	
Sec 1.2	1	1	1	1	1	1	1		1	1		2	1			
Sec 1.3				1				1			1			1		

	1.1	1.2	1.3
Paper 1 - A(1)	2018-P1-Q9	Prac-P1-Q5	
		2019-P1-Q7	
		2020-P1-Q4	
		2023-P1-Q6	
		2024-P1-Q5	
Paper 1 - A(2)	Samp-P1-Q12		
	Prac-P1-Q12		
	2014-P1-Q10		
Paper 1 - B			
Paper 2 - A	2012-P2-Q11	Samp-P2-Q13	2013-P2-Q12
	2016-P2-Q13	Prac-P2-Q12	2017-P2-Q11
	2024-P2-Q12	2012-P2-Q9	2020-P2-Q10
		2014-P2-Q12	2023-P2-Q12
		2015-P2-Q11	
		2016-P2-Q11	
		2018-P2-Q10	
		2019-P2-Q12	
		2021-P2-Q6	
		2021-P2-Q11	
		2022-P2-Q12	
Paper 2 - B			
Cross Topic		2013-P2-Q8	

S2-Ch1 P. 35

S2-Ch2

Identities and Factorization

Section List

- Sec 2.1 Meaning of Identities
- Sec 2.2 Some Important Algebraic Identities
- Sec 2.3 Factorization of Simple Algebraic Expressions

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 2.1																
Sec 2.2																
Sec 2.3			3	3		4			4							

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 2.1	1	1	1	1	1	1		1		1			1	1	2	
Sec 2.2															1	
Sec 2.3	1	1	1	1	1		1				1		1			

	2.1	2.2	2.3
Paper 1 - A(1)			2012-P1-Q3
			2013-P1-Q3
			2015-P1-Q4
			2018-P1-Q5
Paper 1 - A(2)			
Paper 1 - B			
Paper 2 - A	Samp-P2-Q4	2024-P2-Q1	Samp-P2-Q3
	Prac-P2-Q4		Prac-P2-Q3
	2012-P2-Q3		2012-P2-Q2
	2013-P2-Q8		2013-P2-Q3
	2014-P2-Q3		2014-P2-Q2
	2015-P2-Q5		2016-P2-Q3
	2017-P2-Q8		2020-P2-Q4
	2019-P2-Q4		2022-P2-Q1
	2022-P2-Q3		
	2023-P2-Q5		
	2024-P2-Q6		
	2024-P2-Q7		
Paper 2 - B			
Cross Topic			

S2-Ch2 P. 37

Algebraic Fractions and Formulas

Section List

Sec 3.1 Manipulation of Simple Algebraic Fractions

Sec 3.2 Formulas and Substitution

Sec 3.3 Change of Subject

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 3.1							3			3			3		3	
Sec 3.2																
Sec 3.3	3	3	3	3	4	3	3	3	3	3		3		3	3	

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 3.1									1		1	1		1		
Sec 3.2																
Sec 3.3	1	1		1			1	1	1	1	1	1	1	1	1	

DSE Question Table

	3.1	3.2	3.3
Paper 1 - A(1)	2016-P1-Q3		Samp-P1-Q2
	2019-P1-Q2		Prac-P1-Q2
	2022-P1-Q3		2012-P1-Q2
	2024-P1-Q1		2013-P1-Q2
	_		2014-P1-Q5
			2015-P1-Q2
			2016-P1-Q2
			2017-P1-Q1
			2018-P1-Q1
			2019-P1-Q1
			2021-P1-Q2
			2023-P1-Q1
			2024-P1-Q2
Paper 1 - A(2)			
Paper 1 - B			
Paper 2 - A	2018-P2-Q4		Samp-P2-Q2
	2020-P2-Q3		Prac-P2-Q2
	2021-P2-Q4		2013-P2-Q2
	2023-P2-Q2		2016-P2-Q2
			2017-P2-Q3
			2018-P2-Q2
			2019-P2-Q5
			2020-P2-Q2
			2021-P2-Q2
			2022-P2-Q5
			2023-P2-Q1
			2024-P2-Q3
Paper 2 - B			
Cross Topic			

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Approximation and Errors

Section List

Sec 4.1 Significant Figures

Sec 4.2 Errors

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 4.1					3				3		3					
Sec 4.2				5				5						3		

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 4.1		1	1	1		1	1	1		1				1	1	
Sec 4.2	1		1		1	1			1		1	1	1			

DSE Question Table

	4.1	4.2
Paper 1 - A(1)	2014-P1-Q3	2013-P1-Q8
	2018-P1-Q3	2017-P1-Q9
	2020-P1-Q3	2023-P1-Q3
Paper 1 - A(2)		
Paper 1 - B		
Paper 2 - A	Prac-P2-Q14	Samp-P2-Q15
	2012-P2-Q13	2012-P2-Q14
	2013-P2-Q4	2014-P2-Q11
	2015-P2-Q4	2015-P2-Q14
	2016-P2-Q4	2018-P2-Q14
	2017-P2-Q4	2020-P2-Q14
	2019-P2-Q6	2021-P2-Q5
	2023-P2-Q7	2022-P2-Q6
	2024-P2-Q4	
Paper 2 - B		
Cross Topic		

S2-Ch4 P. 41

Angles related to Rectilinear Figures

Section List

- Sec 5.1 Angles of a Triangle
- Sec 5.2 Isosceles Triangles and Equilateral Triangles
- Sec 5.3 Angles of a Polygon
- Sec 5.4 Tessellation

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 5.1																
Sec 5.2							4									
Sec 5.3																
Sec 5.4																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 5.1																
Sec 5.2		1						2		1	1	1	1			
Sec 5.3			1	1	1	1	1		1			1	1	1	1	
Sec 5.4																

	5.1	5.2	5.3	5.4
Paper 1 - A(1)		2016-P1-Q7		
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A		Prac-P2-Q19	2012-P2-Q22	
		2017-P2-Q17	2013-P2-Q21	
		2017-P2-Q18	2014-P2-Q22	
		2019-P2-Q17	2015-P2-Q22	
		2020-P2-Q20	2016-P2-Q24	
		2021-P2-Q18	2018-P2-Q19	
		2022-P2-Q19	2021-P2-Q21	
			2022-P2-Q20	
			2023-P2-Q20	
			2024-P2-Q20	
Paper 2 - B				
Cross Topic				

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More about Statistical Diagrams

Section List

- Sec 6.1 Histograms
- Sec 6.2 Frequency Polygons and Curves
- Sec 6.3 Cumulative Frequency Polygons and Curves
- Sec 6.4 Choosing an Appropriate Diagram to Present Data
- Sec 6.5 Abuses of Statistical Diagrams

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 6.1																
Sec 6.2																
Sec 6.3							3									
Sec 6.4																
Sec 6.5																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 6.1																
Sec 6.2																
Sec 6.3																
Sec 6.4																
Sec 6.5																

	6.1	6.2	6.3	6.4	6.5
Paper 1 - A(1)					
Paper 1 - A(2)					
Paper 1 - B					
Paper 2 - A					
Paper 2 - B					
Cross Topic			2016-P1-Q9		

S2-Ch6 P. 45

Linear Equations in Two Unknowns

Section List

- Sec 7.1 Linear Equations in Two Unknowns and their Graphs
- Sec 7.2 Solving Simultaneous Linear Equations in Two Unknowns by the Graphical Method
- Sec 7.3 Solving Simultaneous Linear Equations in Two Unknowns by Algebraic Methods
- Sec 7.4 Applications of Simultaneous Linear Equations in Two Unknowns

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 7.1																
Sec 7.2																
Sec 7.3																
Sec 7.4				4								4		4		

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 7.1																
Sec 7.2																
Sec 7.3			1			1	1			1						
Sec 7.4																

	7.1	7.2	7.3	7.4
Paper 1 - A(1)				2013-P1-Q4
				2021-P1-Q5
				2023-P1-Q5
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A			2012-P2-Q5	
			2015-P2-Q3	
			2016-P2-Q5	
			2019-P2-Q3	
Paper 2 - B				
Cross Topic				

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Laws of Integral Indices

Section List

Sec 8.1 Laws of Positive Integral Indices

Sec 8.2 Zero and Negative Integral Indices

Sec 8.3 Scientific Notation

Sec 8.4 Different Numeral Systems NF

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 8.1				3												
Sec 8.2	3	3	3		3	3	3	3	3		3	3	3	3		
Sec 8.3																
Sec 8.4																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 8.1	1		1	1		1	1	1	1	1		1	1			
Sec 8.2					1						1			1	1	
Sec 8.3																
Sec 8.4	1	1	1	1	1	1	1	1		1	1	1	1	1	1	

	8.1	8.2	8.3	8.4
Paper 1 - A(1)	2013-P1-Q1	Samp-P1-Q1		
		Prac-P1-Q1		
		2012-P1-Q1		
		2014-P1-Q1		
		2015-P1-Q1		
		2016-P1-Q1		
		2017-P1-Q2		
		2018-P1-Q2		
		2020-P1-Q1		
		2021-P1-Q1		
		2022-P1-Q1		
		2023-P1-Q2		
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A	Samp-P2-Q1	2014-P2-Q1		
	2012-P2-Q1	2020-P2-Q1		
	2013-P2-Q1	2023-P2-Q3		
	2015-P2-Q2	2024-P2-Q2		
	2016-P2-Q1			
	2017-P2-Q2			
	2018-P2-Q1			
	2019-P2-Q2			
	2021-P2-Q1			
	2022-P2-Q2			
Paper 2 - B				Samp-P2-Q33
				Prac-P2-Q32
				2012-P2-Q33
				2013-P2-Q33
				2014-P2-Q34
				2015-P2-Q33
				2016-P2-Q33
				2017-P2-Q32
				2019-P2-Q33
				2020-P2-Q31
				2021-P2-Q32
				2022-P2-Q34
				2023-P2-Q31
				2024-P2-Q32
Cross Topic				

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Introduction to Deductive Geometry

Section List

- Sec 9.1 Deductive Geometry
- Sec 9.2 Deductive Proofs about Angles related to Lines and Triangles
- Sec 9.3 Deductive Proofs about Congruent Triangles and Isosceles Triangles
- Sec 9.4 Deductive Proofs about Similar Triangles
- Sec 9.5 Geometric Construction Using Compasses and A Straight Edge NF

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 9.1																
Sec 9.2																
Sec 9.3				4							5		5		5	
Sec 9.4	2								2	4		5		5		
Sec 9.5																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 9.1																
Sec 9.2																
Sec 9.3																
Sec 9.4												2				
Sec 9.5																

	9.1	9.2	9.3	9.4	9.5
Paper 1 - A(1)			2013-P1-Q7	2021-P1-Q8	
			2020-P1-Q8	2023-P1-Q8	
			2022-P1-Q8		
			2024-P1-Q8		
Paper 1 - A(2)					
Paper 1 - B					
Paper 2 - A				2021-P2-Q19	
				2021-P2-Q20	
Paper 2 - B					
Cross Topic				Samp-P1-Q19	
				2018-P1-Q13	
				2019-P1-Q14	

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Pythagoras' Theorem and Irrational Numbers

Section List

- Sec 10.1 Square Roots and Surds
- Sec 10.2 Pythagoras' Theorem and its Proofs
- Sec 10.3 Converse of Pythagoras' Theorem
- Sec 10.4 Applications of Pythagoras' Theorem and its Converse
- Sec 10.5 Rational Numbers and Irrational Numbers
- Sec 10.6 Manipulations of Surds NF

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 10.1																
Sec 10.2									8	3						
Sec 10.3					5		7									
Sec 10.4															4	
Sec 10.5																
Sec 10.6																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 10.1																
Sec 10.2	1	2	3		2	2		2	2	1						
Sec 10.3							1				1					
Sec 10.4															1	
Sec 10.5																
Sec 10.6																

	10.1	10.2	10.3	10.4	10.5	10.6
Paper 1 - A(1)			2014-P1-Q9	2024-P1-Q7		
Paper 1 - A(2)		2018-P1-Q13	2016-P1-Q13			
Paper 1 - B						
Paper 2 - A		Samp-P2-Q20	2016-P2-Q16	2024-P2-Q18		
		Prac-P2-Q18	2020-P2-Q21			
		2012-P2-Q15				
		2012-P2-Q23				
		2014-P2-Q15				
		2014-P2-Q23				
		2015-P2-Q15				
		2015-P2-Q23				
		2017-P2-Q14				
		2017-P2-Q19				
		2018-P2-Q15				
		2018-P2-Q24				
		2019-P2-Q19				
Paper 2 - B						
Cross Topic		Prac-P2-Q16				
		2012-P2-Q21				
		2019-P1-Q3				

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Areas and Volumes (II)

Section List

Sec 11.1 Circumferences and Areas of Circles

Sec 11.2 Lengths of Arcs and Areas of Sectors

Sec 11.3 Cylinders

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 11.1																
Sec 11.2						5										
Sec 11.3				3			2		4							

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 11.1		1														
Sec 11.2		1	2	1	1		1					1			1	
Sec 11.3	1							1						1		

	11.1	11.2	11.3
Paper 1 - A(1)		2015-P1-Q9	
Paper 1 - A(2)			
Paper 1 - B			
Paper 2 - A	Prac-P2-Q11	Prac-P2-Q15	2023-P2-Q15
		2012-P2-Q16	
		2012-P2-Q21	
		2014-P2-Q10	
		2016-P2-Q19	
		2021-P2-Q17	
		2024-P2-Q15	
Paper 2 - B			
Cross Topic		2013-P2-Q16	Samp-P2-Q17
			2013-P1-Q13
			2016-P1-Q11
			2017-P2-Q15
			2018-P1-Q14

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Trigonometric Ratios

Section List

Sec 12.1 Introduction to Trigonometric Ratios

Sec 12.2 Sine Ratio

Sec 12.3 Cosine Ratio

Sec 12.4 Tangent Ratio

Sec 12.5 Simple Applications of Trigonometric Ratios

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 12.1																
Sec 12.2																
Sec 12.3																
Sec 12.4																
Sec 12.5																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 12.1																
Sec 12.2																
Sec 12.3																
Sec 12.4																
Sec 12.5			1		1	1	1	1	1	1		1				

	12.1	12.2	12.3	12.4	12.5
Paper 1 - A(1)					
Paper 1 - A(2)					
Paper 1 - B					
Paper 2 - A					2012-P2-Q18
					2014-P2-Q18
					2015-P2-Q18
					2016-P2-Q21
					2017-P2-Q22
					2018-P2-Q21
					2019-P2-Q22
					2021-P2-Q24
Paper 2 - B					
Cross Topic					

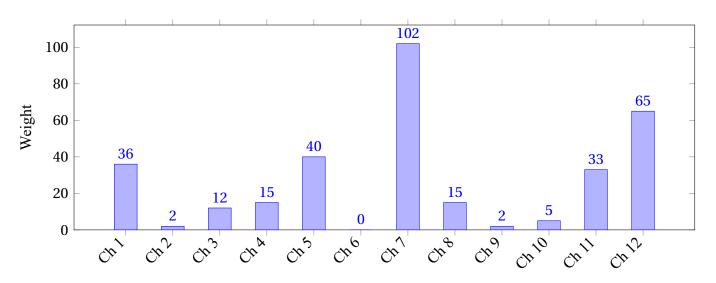
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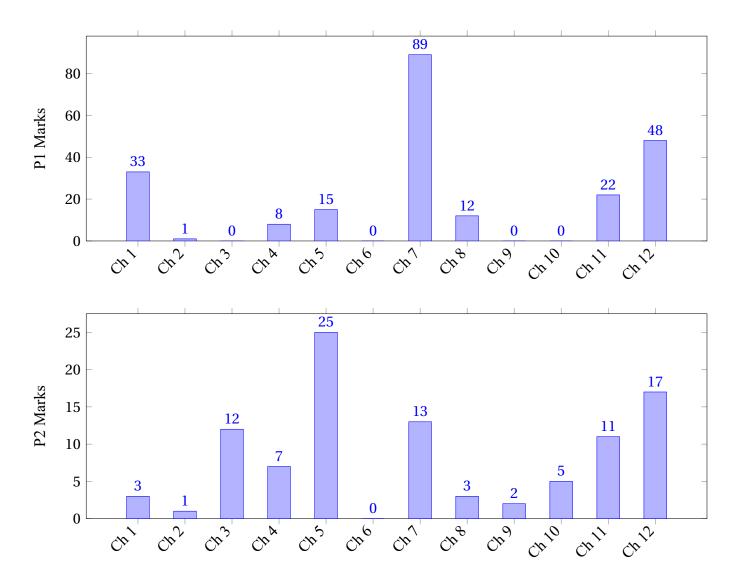
S3 Chapters

Chapter List

Ch 1.	More about Factorization of Polynomials	P.60
Ch 2.	Linear Inequalities in One Unknown	P.62
Ch 3.	Percentages (II)	P.63
Ch 4.	Special Lines and Centres in a Triangle	P.65
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Mark Distribution from Chapter 1 to Chapter 12





More about Factorization of Polynomials

Section List

Sec 1.1 Factorization by Cross-method

Sec 1.2 Sum and Difference of Two Cubes NF

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 1.1	3	3			3		4	3		4	3	3	4		3	
Sec 1.2																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 1.1								1	1					1		
Sec 1.2																

DSE Question Table

	1.1	1.2
Paper 1 - A(1)	Samp-P1-Q3	
	Prac-P1-Q3	
	2014-P1-Q2	
	2016-P1-Q4	
	2017-P1-Q3	
	2019-P1-Q4	
	2020-P1-Q2	
	2021-P1-Q3	
	2022-P1-Q4	
	2024-P1-Q3	
Paper 1 - A(2)		
Paper 1 - B		
Paper 2 - A	2017-P2-Q1	
	2018-P2-Q3	
	2023-P2-Q4	
Paper 2 - B		
Cross Topic		

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Linear Inequalities in One Unknown

Section List

Sec 2.1 Concepts of Inequalities

Sec 2.2 Basic Properties of Inequalities

Sec 2.3 Linear Inequalities in One Unknown

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 2.1																
Sec 2.2																
Sec 2.3					1											

DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 2.1																
Sec 2.2					1											
Sec 2.3																

DSE Question Table

	2.1	2.2	2.3
Paper 1 - A(1)			
Paper 1 - A(2)			
Paper 1 - B			
Paper 2 - A		2014-P2-Q6	
Paper 2 - B			
Cross Topic			2014-P1-Q16

Percentages (II)

Section List

Sec 3.1 More about Percentage Changes

Sec 3.2 Increase or Decrease at a Constant Rate

Sec 3.3 Interest

Sec 3.4 Taxation

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 3.1																
Sec 3.2																
Sec 3.3																
Sec 3.4																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 3.1	1				1	1	1				1					
Sec 3.2																
Sec 3.3	1			1		1		1	1	1			1			
Sec 3.4																

	3.1	3.2	3.3	3.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A	Samp-P2-Q12		2013-P2-Q11	
	2015-P2-Q9		2015-P2-Q10	
	2016-P2-Q10		2017-P2-Q10	
	2020-P2-Q15		2018-P2-Q9	
			2019-P2-Q11	
			2022-P2-Q11	
Paper 2 - B			Samp-P2-Q39	
Cross Topic	2014-P2-Q10			

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Special Lines and Centres in a Triangle

Section List

Sec 4.1 Special Lines in a Triangle

Sec 4.2 Centres of a Triangle NF

Sec 4.3 Triangle Inequality NF

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 4.1																
Sec 4.2	2						6									
Sec 4.3																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 4.1																
Sec 4.2		1		1		1		1	1	1					1	
Sec 4.3																

DSE Question Table

	4.1	4.2	4.3
Paper 1 - A(1)			
Paper 1 - A(2)			
Paper 1 - B			
Paper 2 - A			
Paper 2 - B		2019-P2-Q41	
		2024-P2-Q41	
Cross Topic		Samp-P1-Q19	
		Prac-P2-Q42	
		2013-P2-Q43	
		2015-P2-Q42	
		2016-P1-Q20	
		2017-P2-Q41	
		2018-P2-Q40	

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Quadrilaterals

Section List

- Sec 5.1 Basic Terms of a Quadrilateral
- Sec 5.2 Parallelograms
- Sec 5.3 Properties of Some Other Special Quadrilaterals
- Sec 5.4 Geometric Proofs Related to Parallelograms NF
- Sec 5.5 Mid-point Theorem and Intercept Theorem NF

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 5.1																
Sec 5.2																
Sec 5.3						7				8						
Sec 5.4																
Sec 5.5																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 5.1																
Sec 5.2	1		1			1	1	2	1	1						
Sec 5.3		2		1	2		1		2	1				2	1	
Sec 5.4														1	1	
Sec 5.5	1									1	1					

	5.1	5.2	5.3	5.4	5.5
Paper 1 - A(1)					
Paper 1 - A(2)			2015-P1-Q13		
			2019-P1-Q14		
Paper 1 - B					
Paper 2 - A		Samp-P2-Q18	Prac-P2-Q17	2023-P2-Q21	Samp-P2-Q23
		2012-P2-Q17	Prac-P2-Q22	2024-P2-Q21	2019-P2-Q18
		2015-P2-Q17	2013-P2-Q18		2020-P2-Q18
		2016-P2-Q17	2014-P2-Q16		
		2017-P2-Q16	2014-P2-Q17		
		2017-P2-Q20	2016-P2-Q20		
		2018-P2-Q16	2018-P2-Q18		
		2019-P2-Q16	2018-P2-Q20		
			2019-P2-Q20		
			2023-P2-Q17		
			2023-P2-Q19		
			2024-P2-Q17		
Paper 2 - B					
Cross Topic					

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More about 3-D Figures

Section List

Sec 6.1 Symmetries of Solids

Sec 6.2 Nets of Solids

Sec 6.3 2-D Representations of Solids

Sec 6.4 Points, Lines and Planes in Solids

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 6.1																
Sec 6.2																
Sec 6.3																
Sec 6.4																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 6.1																
Sec 6.2																
Sec 6.3																
Sec 6.4																

	6.1	6.2	6.3	6.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A				
Paper 2 - B				
Cross Topic				

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Areas and Volumes (III)

Section List

Sec 7.1 Pyramids

Sec 7.2 Circular Cones

Sec 7.3 Frustums

Sec 7.4 Spheres

Sec 7.5 Formulas for Lengths, Areas and Volumes

Sec 7.6 Similar Shapes

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 7.1																
Sec 7.2																
Sec 7.3					8											
Sec 7.4	4		7						9	5						
Sec 7.5																
Sec 7.6				7			6	7			6	8	7	8	7	

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 7.1				1						1						
Sec 7.2		1						1			1				1	
Sec 7.3						1										
Sec 7.4	1			1									1			
Sec 7.5																
Sec 7.6											1	1	1			

	7.1	7.2	7.3	7.4	7.5	7.6
Paper 1 - A(1)				Samp-P1-Q6		
				2019-P1-Q9		
Paper 1 - A(2)			2014-P1-Q14	2012-P1-Q12		2013-P1-Q13
				2018-P1-Q14		2016-P1-Q11
						2017-P1-Q12
						2020-P1-Q12
						2021-P1-Q14
						2022-P1-Q13
						2023-P1-Q14
						2024-P1-Q13
Paper 1 - B						
Paper 2 - A	2019-P2-Q15	Prac-P2-Q16	2015-P2-Q16	Samp-P2-Q17		2020-P2-Q17
		2017-P2-Q15		2013-P2-Q17		2021-P2-Q16
		2020-P2-Q16		2022-P2-Q15		2022-P2-Q22
		2024-P2-Q16				
Paper 2 - B	2013-P2-Q40					
Cross Topic						

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S3-Ch8

Coordinate Geometry of Straight Lines

Section List

- Sec 8.1 Distance between Any Two Points on a Plane
- Sec 8.2 Slope of a Straight Line
- Sec 8.3 Parallel and Perpendicular Lines
- Sec 8.4 Point of Division
- Sec 8.5 Using Analytic Approach to Prove Results Relating to Rectilinear Figures NF

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 8.1																
Sec 8.2																
Sec 8.3	3				5			4								
Sec 8.4																
Sec 8.5																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 8.1																
Sec 8.2																
Sec 8.3		1		1		1										
Sec 8.4																
Sec 8.5																

	8.1	8.2	8.3	8.4	8.5
Paper 1 - A(1)			Samp-P1-Q8		
			2014-P1-Q8		
			2017-P1-Q6		
Paper 1 - A(2)					
Paper 1 - B					
Paper 2 - A					
Paper 2 - B			Prac-P2-Q42		
			2013-P2-Q43		
			2015-P2-Q42		
Cross Topic					

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S3-Ch9

Trigonometric Relations

Section List

- Sec 9.1 Trigonometric Ratios of Special Angles
- Sec 9.2 Finding Trigonometric Ratios by Constructing Right-Angled Triangles
- Sec 9.3 Trigonometric Identities

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 9.1																
Sec 9.2																
Sec 9.3																

DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 9.1														1		
Sec 9.2																
Sec 9.3				1												

DSE Question Table

	9.1	9.2	9.3
Paper 1 - A(1)			
Paper 1 - A(2)			
Paper 1 - B			
Paper 2 - A	2023-P2-Q23		2013-P2-Q23
Paper 2 - B			
Cross Topic			

S3-Ch10

Applications of Trigonometry

Section List

Sec 10.1 Gradient and Inclination

Sec 10.2 Angles of Elevation and Depression

Sec 10.3 Bearings

Sec 10.4 Applications of Trigonometry to Rectilinear Figures

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 10.1																
Sec 10.2																
Sec 10.3																
Sec 10.4																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 10.1																
Sec 10.2																
Sec 10.3				1							1					
Sec 10.4				1									1		1	

	10.1	10.2	10.3	10.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A			2013-P2-Q20	2013-P2-Q16
			2020-P2-Q23	2022-P2-Q23
				2024-P2-Q23
Paper 2 - B				
Cross Topic				

S3-Ch10 P. 77

S3-Ch11

Measures of Central Tendency

Section List

Sec 11.1 Introduction to Central Tendency

Sec 11.2 Means

Sec 11.3 Medians

Sec 11.4 Modes and Modal Classes

Sec 11.5 More about Means, Medians and Modes

Sec 11.6 Misuses of Averages

Sec 11.7 Effects of Data Change on Measures of Central Tendency NF

Sec 11.8 Weighted Mean

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 11.1																
Sec 11.2																
Sec 11.3																
Sec 11.4									6	3						
Sec 11.5			6													
Sec 11.6																
Sec 11.7												7				
Sec 11.8																

DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 11.1																
Sec 11.2					1				1			1		1		
Sec 11.3	1		1													
Sec 11.4				1		1	1									
Sec 11.5											1					
Sec 11.6																
Sec 11.7																
Sec 11.8													1			

DSE Question Table

	11.1	11.2	11.3	11.4	11.5	11.6	11.7	
Paper 1 - A(1)		,						
Paper 1 - A(2)				2018-P1-Q11	2012-P1-Q10		2021-P1-Q11	
Paper 1 - B		!						
Paper 2 - A		2014-P2-Q28	Samp-P2-Q28	2013-P2-Q27	2020-P2-Q30			2022
'		2018-P2-Q29	2012-P2-Q30	2015-P2-Q30				
'		2021-P2-Q30		2016-P2-Q30				
'		2023-P2-Q30						
Paper 2 - B								
Cross Topic				2019-P1-Q8				

S3-Ch11 P. 79

S3-Ch12

Introduction to Probability

Section List

Sec 12.1 Concepts of Probability

Sec 12.2 Further Problems on Probability

Sec 12.3 Experimental Probability

Sec 12.4 Expected Value

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 12.1		7						4	3	5						
Sec 12.2				6		3	5						5	5	5	
Sec 12.3																
Sec 12.4																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 12.1			1		1	1		1					1			
Sec 12.2		1	1	1			1		1	1	1	1		1	1	
Sec 12.3																
Sec 12.4						1	1									

	12.1	12.2	12.3	12.4
Paper 1 - A(1)	2017-P1-Q7	2015-P1-Q3		
	2018-P1-Q4	2016-P1-Q9		
	2019-P1-Q8	2022-P1-Q9		
		2023-P1-Q9		
		2024-P1-Q9		
Paper 1 - A(2)	Prac-P1-Q13	2013-P1-Q10		
Paper 1 - B				
Paper 2 - A	2012-P2-Q28	Prac-P2-Q28		2015-P2-Q27
	2014-P2-Q27	2012-P2-Q27		2016-P2-Q29
	2015-P2-Q28	2013-P2-Q26		
	2017-P2-Q28	2016-P2-Q28		
	2022-P2-Q28	2018-P2-Q28		
		2019-P2-Q28		
		2020-P2-Q28		
		2021-P2-Q28		
		2023-P2-Q28		
		2024-P2-Q28		
Paper 2 - B				
Cross Topic				

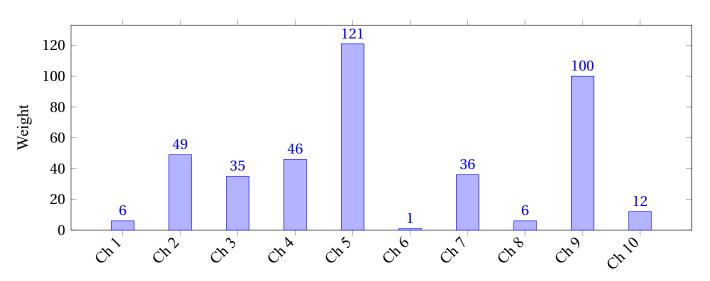
S3-Ch12 P. 81

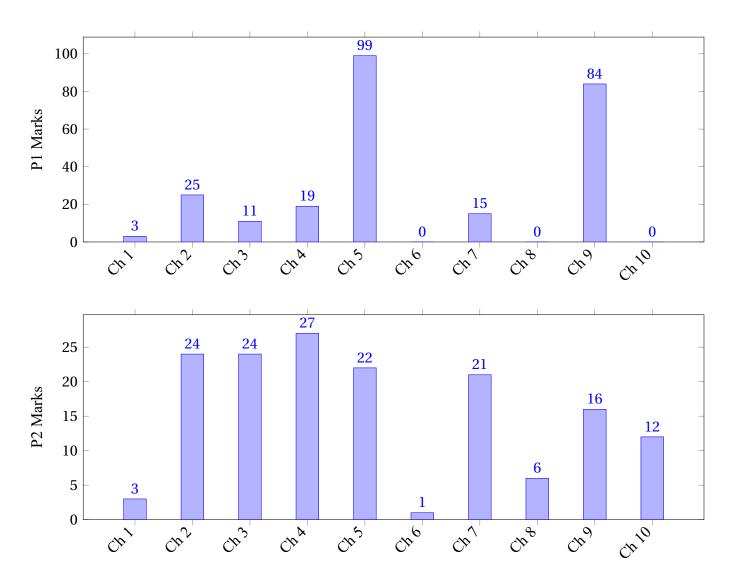
S4 Chapters

Chapter List

Ch 1.	Quadratic Equations in One Unknown (I)	P.84
Ch 2.	Quadratic Equations in One Unknown (II)	P.86
Ch 3.	Functions and Graphs	P.88
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Ch 5.	More about Polynomials	P.92
Ch 6.	Exponential Functions NF	P.94
Ch 7.	Logarithmic Functions NF	P.95
Ch 8.	More about Equations NF	P.97
Ch 9.	Variations	P.99
Ch 10	More about Trigonometry	P 101

Mark Distribution from Chapter 1 to Chapter 10





Quadratic Equations in One Unknown (I)

Section List

- Sec 1.1 Real Number System
- Sec 1.2 Solving Quadratic Equations by the Factor Method
- Sec 1.3 Solving Quadratic Equations by the Quadratic Formula
- Sec 1.4 Solving Quadratic Equations by the Graphical Method
- Sec 1.5 Problems Leading to Quadratic Equations

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 1.1																
Sec 1.2																
Sec 1.3																
Sec 1.4																
Sec 1.5										3						

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 1.1																
Sec 1.2	1			1									1			
Sec 1.3																
Sec 1.4																
Sec 1.5																

	1.1	1.2	1.3	1.4	1.5
Paper 1 - A(1)					2019-P1-Q3
Paper 1 - A(2)					
Paper 1 - B					
Paper 2 - A		Samp-P2-Q6			
		2013-P2-Q6			
		2022-P2-Q4			
Paper 2 - B					
Cross Topic					

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Quadratic Equations in One Unknown (II)

Section List

- Sec 2.1 Nature of Roots of a Quadratic Equation
- Sec 2.2 Forming a Quadratic Equation with Given Roots
- Sec 2.3 Relations between Roots and Coefficients NF
- Sec 2.4 Complex Number System (partly NF)

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 2.1											5					
Sec 2.2																
Sec 2.3								8						5		
Sec 2.4		7														

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 2.1	1	1			1	1	1									
Sec 2.2																
Sec 2.3		1		1		1			1							
Sec 2.4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

	2.1	2.2	2.3	2.4
Paper 1 - A(1)	2020-P1-Q7			
Paper 1 - A(2)				
Paper 1 - B			2017-P1-Q18	Prac-P1-Q17
			2023-P1-Q16	
Paper 2 - A	Samp-P2-Q7			
	Prac-P2-Q6			
	2014-P2-Q4			
	2015-P2-Q7			
	2016-P2-Q8			
Paper 2 - B			Prac-P2-Q33	Samp-P2-Q34
			2013-P2-Q35	Prac-P2-Q34
			2015-P2-Q34	2012-P2-Q35
			2018-P2-Q36	2013-P2-Q36
				2014-P2-Q36
				2015-P2-Q35
				2016-P2-Q34
				2017-P2-Q35
				2018-P2-Q37
				2019-P2-Q34
				2020-P2-Q37
				2021-P2-Q35
				2022-P2-Q35
				2023-P2-Q34
				2024-P2-Q35
Cross Topic				

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Functions and Graphs

Section List

- Sec 3.1 Introduction to Functions
- Sec 3.2 Notation of a Function
- Sec 3.3 Some Common Functions and their Graphs
- Sec 3.4 Optimum Values of Quadratic Functions (partly NF)

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 3.1																
Sec 3.2																
Sec 3.3																
Sec 3.4				6									5			

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 3.1																
Sec 3.2								1	1	1	1	1	1	1	1	
Sec 3.3																
Sec 3.4		1	2	1	2	1	1	1	1	1	1	1	1	1	1	

	3.1	3.2	3.3	3.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B				2013-P1-Q17
				2022-P1-Q16
Paper 2 - A		2017-P2-Q6		Prac-P2-Q8
		2018-P2-Q7		2012-P2-Q6
		2019-P2-Q8		2013-P2-Q7
		2020-P2-Q5		2014-P2-Q5
		2021-P2-Q7		2015-P2-Q8
		2022-P2-Q8		2016-P2-Q9
		2023-P2-Q8		2017-P2-Q9
		2024-P2-Q8		2018-P2-Q5
				2019-P2-Q10
				2020-P2-Q7
				2021-P2-Q14
				2022-P2-Q10
				2023-P2-Q10
				2024-P2-Q14
Paper 2 - B				2012-P2-Q34
				2014-P2-Q35
Cross Topic				

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Equations of Straight Lines

Section List

- Sec 4.1 Equations of Straight Lines
- Sec 4.2 General Form of Equation of a Straight Line
- Sec 4.3 Possible Intersection of Straight Lines

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 4.1																
Sec 4.2														12		
Sec 4.3															7	

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 4.1		1	1	1	1	1		3		1	1					
Sec 4.2							1			1	1		2	2	1	
Sec 4.3		1					1		3		1	2			1	

	4.1	4.2	4.3
Paper 1 - A(1)			
Paper 1 - A(2)			2024-P1-Q12
Paper 1 - B		2023-P1-Q19	
Paper 2 - A	Prac-P2-Q7	2016-P2-Q25	Prac-P2-Q26
	2012-P2-Q25	2019-P2-Q24	2016-P2-Q26
	2013-P2-Q14	2020-P2-Q8	2018-P2-Q6
	2014-P2-Q25	2022-P2-Q24	2018-P2-Q26
	2015-P2-Q25	2023-P2-Q25	2021-P2-Q26
	2017-P2-Q23		2024-P2-Q26
	2017-P2-Q24		
	2019-P2-Q23		
	2020-P2-Q26		
Paper 2 - B	2017-P2-Q41	2022-P2-Q41	2018-P2-Q40
		2023-P2-Q41	2020-P2-Q40
		2024-P2-Q34	2021-P2-Q41
Cross Topic			

S4-Ch4 P. 91

More about Polynomials

Section List

- Sec 5.1 Revision on Polynomials
- Sec 5.2 Division of Polynomials
- Sec 5.3 Remainder Theorem
- Sec 5.4 Factor Theorem
- Sec 5.5 H.C.F. and L.C.M. of Polynomials NF
- Sec 5.6 Rational Functions and their Manipulations NF

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 5.1																
Sec 5.2	6			7												
Sec 5.3																
Sec 5.4		6			5	6	10	8	7	6	8	7	8	7	8	
Sec 5.5																
Sec 5.6																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 5.1																
Sec 5.2																
Sec 5.3																
Sec 5.4	1	1	1	1			1	1	1	1	1	1	1	1	1	
Sec 5.5			1	1	1		1					1		1	1	
Sec 5.6	1					1										

	5.1	5.2	5.3	5.4	5.5	5.6
Paper 1 - A(1)				2014-P1-Q7		
Paper 1 - A(2)		Samp-P1-Q10		Prac-P1-Q10		
		2013-P1-Q12		2015-P1-Q11		
		_		2016-P1-Q14		
				2017-P1-Q14		
				2018-P1-Q12		
				2019-P1-Q11		
				2020-P1-Q13		
				2021-P1-Q12		
				2022-P1-Q14		
				2023-P1-Q13		
				2024-P1-Q14		
Paper 1 - B						
Paper 2 - A				Samp-P2-Q5		
				Prac-P2-Q5		
				2012-P2-Q4		
				2013-P2-Q9		
				2016-P2-Q6		
				2017-P2-Q7		
				2018-P2-Q8		
				2019-P2-Q9		
				2020-P2-Q6		
				2021-P2-Q8		
				2022-P2-Q9		
				2023-P2-Q9		
				2024-P2-Q9		
Paper 2 - B					2012-P2-Q31	Samp-P2-Q31
					2013-P2-Q31	2015-P2-Q31
					2014-P2-Q31	
					2016-P2-Q31	
					2021-P2-Q31	
					2023-P2-Q32	
					2024-P2-Q31	
Cross Topic						

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Exponential Functions NF

Section List

Sec 6.1 Laws of Rational Indices NF

Sec 6.2 Exponential Equations NF

Sec 6.3 Exponential Functions and their Graphs NF

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 6.1																
Sec 6.2																
Sec 6.3																

DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 6.1																
Sec 6.2																
Sec 6.3											1					

DSE Question Table

	6.1	6.2	6.3
Paper 1 - A(1)			
Paper 1 - A(2)			
Paper 1 - B			
Paper 2 - A			
Paper 2 - B			2020-P2-Q33
Cross Topic			

Logarithmic Functions NE

Section List

- Sec 7.1 Common Logarithms NF
- Sec 7.2 Applications of Common Logarithms NF
- Sec 7.3 Logarithms to an Arbitrary Base NF
- Sec 7.4 Graphs of Logarithmic Functions and their Features NF
- Sec 7.5 Historical Development of the Concept of Logarithms NF

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 7.1																
Sec 7.2	5															
Sec 7.3					3			4								
Sec 7.4															3	
Sec 7.5																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 7.1										1						
Sec 7.2	1	1			1								1			
Sec 7.3		1	1			1	1		1	1		1	2	1	1	
Sec 7.4				1	1				1		1	1				
Sec 7.5																

	7.1	7.2	7.3	7.4	7.5
Paper 1 - A(1)					
Paper 1 - A(2)					
Paper 1 - B		Samp-P1-Q17	2014-P1-Q15	2024-P1-Q15	
			2017-P1-Q15		
Paper 2 - A					
Paper 2 - B		Samp-P2-Q32	Prac-P2-Q36	2013-P2-Q32	
		Prac-P2-Q37	2012-P2-Q32	2014-P2-Q32	
		2014-P2-Q33	2015-P2-Q32	2018-P2-Q32	
		2022-P2-Q31	2016-P2-Q32	2020-P2-Q34	
			2018-P2-Q33	2021-P2-Q33	
			2019-P2-Q31		
			2021-P2-Q34		
			2022-P2-Q32		
			2022-P2-Q33		
			2023-P2-Q33		
			2024-P2-Q33		
Cross Topic	2019-P2-Q32				

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More about Equations NF

Section List

- Sec 8.1 Solving Simultaneous Equations by the Algebraic Method NF
- Sec 8.2 Solving Simultaneous Equations by the Graphical Method NF
- Sec 8.3 Equations Reducible to Quadratic Equations NF
- Sec 8.4 Practical Problems Leading to Quadratic Equations NF

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 8.1																
Sec 8.2																
Sec 8.3																
Sec 8.4																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 8.1															1	
Sec 8.2																
Sec 8.3				1				2		1						
Sec 8.4											1					

	8.1	8.2	8.3	8.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A	2024-P2-Q5			
Paper 2 - B			2013-P2-Q34	2020-P2-Q32
			2017-P2-Q33	
			2017-P2-Q34	
			2019-P2-Q32	
Cross Topic				-

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Variations

Section List

Sec 9.1 Basic Concept of Variation

Sec 9.2 Direct Variation

Sec 9.3 Inverse Variation

Sec 9.4 Joint Variation

Sec 9.5 Partial Variation

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 9.1																
Sec 9.2																
Sec 9.3								5								
Sec 9.4																
Sec 9.5	6	6	6	6	8	6	5			5	6	6	6	7	6	

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 9.1																
Sec 9.2																
Sec 9.3				1												
Sec 9.4	1	1		1	1	1	1		1	1	1	1	1	1	1	
Sec 9.5			1					1								

	9.1	9.2	9.3	9.4	9.5
Paper 1 - A(1)			2017-P1-Q8		2016-P1-Q8
Paper 1 - A(2)					Samp-P1-Q11
					Prac-P1-Q11
					2012-P1-Q11
					2013-P1-Q11
					2014-P1-Q13
					2015-P1-Q10
					2019-P1-Q10
					2020-P1-Q10
					2021-P1-Q10
					2022-P1-Q10
					2023-P1-Q12
					2024-P1-Q10
Paper 1 - B					
Paper 2 - A			2013-P2-Q28	Samp-P2-Q14	2012-P2-Q10
				Prac-P2-Q13	2017-P2-Q12
				2013-P2-Q13	
				2014-P2-Q13	
				2015-P2-Q12	
				2016-P2-Q12	
				2018-P2-Q11	
				2019-P2-Q13	
				2020-P2-Q11	
				2021-P2-Q12	
				2022-P2-Q13	
				2023-P2-Q13	
D 2 D				2024-P2-Q13	
Paper 2 - B					
Cross Topic					

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More about Trigonometry

Section List

- Sec 10.1 Angles of Rotation
- Sec 10.2 Trigonometric Ratios of Any Angle
- Sec 10.3 Graphs of Trigonometric Functions
- Sec 10.4 Graphical Solutions of Trigonometric Equations
- Sec 10.5 Trigonometric Identities
- Sec 10.6 Solving Trigonometric Equations by Algebraic Methods

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 10.1																
Sec 10.2																
Sec 10.3																
Sec 10.4																
Sec 10.5																
Sec 10.6																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 10.1																
Sec 10.2													1	1		
Sec 10.3																
Sec 10.4																
Sec 10.5	1		1		1	1										
Sec 10.6					1	1	1		1				1		1	

	10.1	10.2	10.3	10.4	10.5	10.6
Paper 1 - A(1)						
Paper 1 - A(2)						
Paper 1 - B						
Paper 2 - A		2022-P2-Q25			Samp-P2-Q19	
		2023-P2-Q24			2012-P2-Q19	
					2014-P2-Q19	
					2015-P2-Q19	
Paper 2 - B						2014-P2-Q39
						2015-P2-Q38
						2016-P2-Q38
						2018-P2-Q38
						2022-P2-Q39
						2024-P2-Q39
Cross Topic						

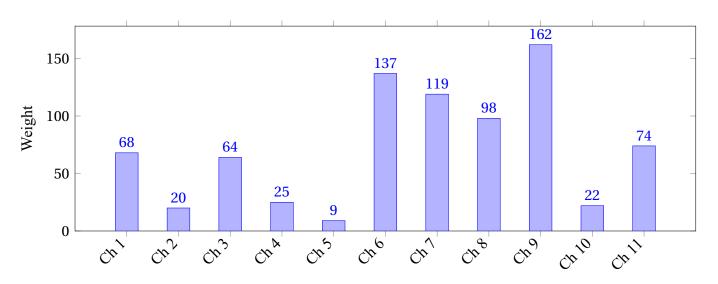
S4-Ch10 P. 102

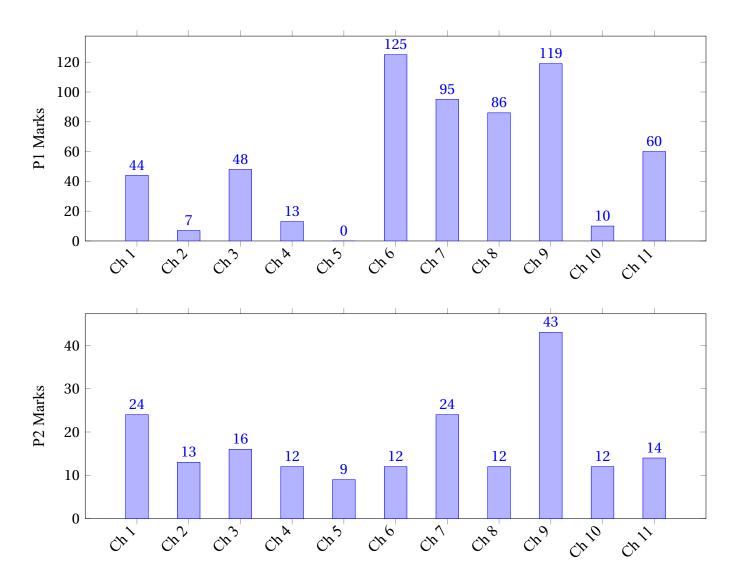
S5 Chapters

Chapter List

Ch 1.	Basic Properties of Circles	P.105
Ch 2.	Tangents to Circles NF	P.107
Ch 3.	Inequalities	P.109
Ch 4.	Linear Programming NF	P.111
Ch 5.	Applications of Trigonometry in 2-D problems NF	P.113
Ch 6.	Applications of Trigonometry in 3-D problems NF	P.115
Ch 7.	Equations of Circles	P.117
Ch 8.	Locus	P.119
Ch 9.	Measures of Dispersion	P.121
Ch 10.	Permutation and Combination NF	P.124
Ch 11.	More about Probability NF	P.126

Mark Distribution from Chapter 1 to Chapter 11





S5-Ch1

Basic Properties of Circles

Section List

Sec 1.1 Basic Terms of a Circle

Sec 1.2 Chords of a Circle

Sec 1.3 Angles in a Circle

Sec 1.4 Relationships among Arcs, Chords and Angles

Sec 1.5 Cyclic Quadrilaterals

Sec 1.6 Concyclic Points NF

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 1.1																
Sec 1.2																
Sec 1.3	4					5										
Sec 1.4		4	5							8				4		
Sec 1.5								6	5							
Sec 1.6										3						

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 1.1																
Sec 1.2	1	1			1				1							
Sec 1.3	1	1	1			1	1	1	1				1			
Sec 1.4	1	1		1	1	1				1	1			1	1	
Sec 1.5								1				1		1		
Sec 1.6																

	1.1	1.2	1.3	1.4	1.5	1.6
Paper 1 - A(1)			Samp-P1-Q7	Prac-P1-Q7	2018-P1-Q8	
			2015-P1-Q8	2012-P1-Q8		
				2023-P1-Q7		
Paper 1 - A(2)				2019-P1-Q13	2017-P1-Q10	
Paper 1 - B						
Paper 2 - A		Samp-P2-Q16	Samp-P2-Q21	Samp-P2-Q22	2017-P2-Q21	
		2014-P2-Q21	Prac-P2-Q20	Prac-P2-Q21	2021-P2-Q22	
		2018-P2-Q17	2012-P2-Q20	2013-P2-Q19	2023-P2-Q22	
			2015-P2-Q21	2014-P2-Q20		
			2016-P2-Q22	2015-P2-Q20		
			2018-P2-Q22	2019-P2-Q21		
			2022-P2-Q21	2020-P2-Q22		
				2023-P2-Q16		
				2024-P2-Q22		
Paper 2 - B		Prac-P2-Q40	2017-P2-Q40			
Cross Topic						2019-P1-Q19

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S5-Ch2

Tangents to Circles NF

Section List

- Sec 2.1 Tangents to a Circle and their Properties NF
- Sec 2.2 Tangents from an External Point NF
- Sec 2.3 Angles in the Alternate Segment NF

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 2.1																
Sec 2.2																
Sec 2.3											7					

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 2.1	1		1	1	1					1						
Sec 2.2						1	1									
Sec 2.3									1		1	1	1	1	1	

	2.1	2.2	2.3
Paper 1 - A(1)			
Paper 1 - A(2)			
Paper 1 - B			2020-P1-Q18
Paper 2 - A			
Paper 2 - B	Samp-P2-Q41	2015-P2-Q40	2018-P2-Q39
	2012-P2-Q41	2016-P2-Q40	2020-P2-Q39
	2013-P2-Q41		2021-P2-Q39
	2014-P2-Q41		2022-P2-Q38
	2019-P2-Q39		2023-P2-Q38
			2024-P2-Q38
Cross Topic			

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Inequalities

Section List

- Sec 3.1 Compound Linear Inequalities in One Unknown
- Sec 3.2 Solving Quadratic Inequalities in One Unknown by the Graphical Method
- Sec 3.3 Solving Quadratic Inequalities in One Unknown by the Algebraic Method NF
- Sec 3.4 Problems Leading to Quadratic Inequalities in One Unknown

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 3.1			4	4		4	4	4	4	4	4	4	4	4	4	
Sec 3.2																
Sec 3.3																
Sec 3.4																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 3.1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Sec 3.2																
Sec 3.3																
Sec 3.4												1				

	3.1	3.2	3.3	3.4
Paper 1 - A(1)	2012-P1-Q6			
	2013-P1-Q5			
	2015-P1-Q5			
	2016-P1-Q6			
	2017-P1-Q5			
	2018-P1-Q6			
	2019-P1-Q6			
	2020-P1-Q6			
	2021-P1-Q4			
	2022-P1-Q6			
	2023-P1-Q4			
	2024-P1-Q4			
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A	Samp-P2-Q9			
	Prac-P2-Q9			
	2012-P2-Q7			
	2013-P2-Q5			
	2014-P2-Q7			
	2015-P2-Q6			
	2016-P2-Q7			
	2017-P2-Q5			
	2018-P2-Q13			
	2019-P2-Q7			
	2020-P2-Q13			
	2021-P2-Q10			
	2022-P2-Q7			
	2023-P2-Q6			
	2024-P2-Q10			
Paper 2 - B				2021-P2-Q37
Cross Topic				

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Linear Programming NE

Section List

- Sec 4.1 Linear Inequalities in Two Unknowns NF
- Sec 4.2 Solving Systems of Linear Inequalities in Two Unknowns Graphically NF
- Sec 4.3 Linear Programming NF
- Sec 4.4 Applications of Linear Programming NF

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 4.1																
Sec 4.2																
Sec 4.3												5				
Sec 4.4					8											

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 4.1																
Sec 4.2	1		1			1										
Sec 4.3				1			1	1	1	1	1		1	1	1	
Sec 4.4																

	4.1	4.2	4.3	4.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B			2021-P1-Q16	2014-P1-Q18
Paper 2 - A				
Paper 2 - B		Samp-P2-Q35	2013-P2-Q37	
		2012-P2-Q36	2016-P2-Q35	
		2015-P2-Q36	2017-P2-Q37	
			2018-P2-Q34	
			2019-P2-Q35	
			2020-P2-Q36	
			2022-P2-Q36	
			2023-P2-Q37	
			2024-P2-Q37	
Cross Topic				

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Applications of Trigonometry in 2-D problems NE

Section List

Sec 5.1 Area of a Triangle NF

Sec 5.2 The Sine Formula NF

Sec 5.3 The Cosine Formula NF

Sec 5.4 Trigonometric Problems in Two Dimensions NF

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 5.1																
Sec 5.2																
Sec 5.3																
Sec 5.4																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 5.1										1						
Sec 5.2	2															
Sec 5.3				1				2								
Sec 5.4												1	2			

	5.1	5.2	5.3	5.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A		Samp-P2-Q24	2013-P2-Q22	2022-P2-Q16
			2017-P2-Q25	2022-P2-Q17
Paper 2 - B	2019-P2-Q38	Samp-P2-Q38	2017-P2-Q38	2021-P2-Q38
Cross Topic				

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Applications of Trigonometry in 3-D problems N

Section List

Sec 6.1 Basic Terminologies in 3-dimensional Problems NF

Sec 6.2 More Examples on 3-dimensional Problems NF

Sec 6.3 Practical 3-dimensional Problems NF

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 6.1																
Sec 6.2		8								7		7				
Sec 6.3	8		8	8	7	13	6	13	7		12		7	6	8	

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 6.1			1							1						
Sec 6.2					1		1									
Sec 6.3	1	1						1	1		1		1	1	1	

	6.1	6.2	6.3
Paper 1 - A(1)			
Paper 1 - A(2)			
Paper 1 - B		Prac-P1-Q18	Samp-P1-Q18
		2019-P1-Q18	2012-P1-Q18
		2021-P1-Q18	2013-P1-Q18
			2014-P1-Q17
			2015-P1-Q19
			2016-P1-Q19
			2017-P1-Q19
			2018-P1-Q17
			2020-P1-Q19
			2022-P1-Q18
			2023-P1-Q17
			2024-P1-Q18
Paper 2 - A			
Paper 2 - B	2012-P2-Q40	2014-P2-Q40	Samp-P2-Q40
	2019-P2-Q40	2016-P2-Q39	Prac-P2-Q39
			2017-P2-Q39
			2018-P2-Q41
			2020-P2-Q38
			2022-P2-Q40
			2023-P2-Q40
			2024-P2-Q40
Cross Topic			

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Equations of Circles

Section List

- Sec 7.1 Equations of Circles
- Sec 7.2 More about Equations of Circles
- Sec 7.3 Intersection between a Straight Line and a Circle NF

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 7.1																
Sec 7.2		9	7			9			12							
Sec 7.3	13						12				9	12	12			

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 7.1					1	1										
Sec 7.2		1	1				1	1	1	1	1		1	1	1	
Sec 7.3		1	1	2	1	1	1			1	1	2		1		

	7.1	7.2	7.3
Paper 1 - A(1)			
Paper 1 - A(2)		Prac-P1-Q14	2020-P1-Q14
		2015-P1-Q14	
Paper 1 - B		2012-P1-Q17	Samp-P1-Q19
		2018-P1-Q19	2016-P1-Q20
			2021-P1-Q19
			2022-P1-Q19
Paper 2 - A	2014-P2-Q26	Prac-P2-Q27	2013-P2-Q25
_	2015-P2-Q26	2012-P2-Q26	2021-P2-Q27
		2016-P2-Q27	
		2017-P2-Q26	
		2018-P2-Q27	
		2019-P2-Q27	
		2020-P2-Q27	
		2022-P2-Q27	
		2023-P2-Q27	
		2024-P2-Q27	
Paper 2 - B			Prac-P2-Q41
			2012-P2-Q42
			2013-P2-Q42
			2014-P2-Q42
			2015-P2-Q41
			2016-P2-Q41
			2019-P2-Q37
			2020-P2-Q41
			2021-P2-Q40
			2023-P2-Q39
Cross Topic			

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Locus

Section List

Sec 8.1 Concept of a Locus

Sec 8.2 Sketch and Description of a Locus

Sec 8.3 Algebraic Equation of a Locus

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 8.1																
Sec 8.2																
Sec 8.3	9	5	9	9	7		5	7		7		7	7	6	8	

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 8.1																
Sec 8.2			1		1	1				1						
Sec 8.3				1				1	1		1	1	1	1	1	

DSE Question Table

	8.1	8.2	8.3
Paper 1 - A(1)			Prac-P1-Q8
Paper 1 - A(2)			Samp-P1-Q13
			2012-P1-Q14
			2013-P1-Q14
			2014-P1-Q12
			2016-P1-Q10
			2017-P1-Q13
			2021-P1-Q13
			2022-P1-Q12
			2023-P1-Q10
Paper 1 - B			2019-P1-Q17
			2024-P1-Q17
Paper 2 - A		2012-P2-Q24	2013-P2-Q24
		2014-P2-Q24	2017-P2-Q27
		2015-P2-Q24	2018-P2-Q25
		2019-P2-Q26	2020-P2-Q25
			2021-P2-Q25
			2022-P2-Q26
			2023-P2-Q26
			2024-P2-Q25
Paper 2 - B			
Cross Topic			

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Measures of Dispersion

Section List

- Sec 9.1 Introduction to Measures of Dispersion
- Sec 9.2 Range and Inter-quartile Range
- Sec 9.3 Box-and-Whisker Diagram
- Sec 9.4 Standard Deviation
- Sec 9.5 Comparing Dispersions Using Appropriate Measures
- Sec 9.6 Applications of Standard Deviation NF
- Sec 9.7 Effects of Data Change on Measures of Dispersion NF

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 9.1																
Sec 9.2		5				7	7				6				7	
Sec 9.3			4	4	6				5							
Sec 9.4				5	3			7		8	5	5		7		
Sec 9.5																
Sec 9.6		4	3			4	3									
Sec 9.7	7												7			

DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 9.1																
Sec 9.2					1			1	1	1	1	1	1			
Sec 9.3	1	1		1		1		1		1				1	1	
Sec 9.4		1	1				1								1	
Sec 9.5																
Sec 9.6					1			1	1	1	1	1	1	1	1	
Sec 9.7	2	2	1	1	1	1	1	1		1	1		1	1	1	

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	9.1	9.2	9.3	9.4	9.5	9.6	9.7
Paper 1 - A(1)		Prac-P1-Q9	2012-P1-Q7	2013-P1-Q9			
				2014-P1-Q4			
				2020-P1-Q9			
				2021-P1-Q9			
Paper 1 - A(2)		2015-P1-Q12	2014-P1-Q11	2017-P1-Q11			Samp-P1-Q14
		2016-P1-Q12	2018-P1-Q10	2019-P1-Q12			2022-P1-Q11
		2020-P1-Q11		2023-P1-Q11			
		2024-P1-Q11					
Paper 1 - B			2013-P1-Q15			Prac-P1-Q15	
						2012-P1-Q15	
						2015-P1-Q15	
						2016-P1-Q16	
Paper 2 - A		2014-P2-Q30	Samp-P2-Q27	Prac-P2-Q30			Samp-P2-Q29
		2017-P2-Q30	Prac-P2-Q29	2012-P2-Q29			
		2018-P2-Q30	2013-P2-Q29	2024-P2-Q30			
		2019-P2-Q30	2015-P2-Q29				
		2020-P2-Q29	2017-P2-Q29				
		2021-P2-Q29	2019-P2-Q29				
		2022-P2-Q30	2023-P2-Q29				
		_	2024-P2-Q29				
Paper 2 - B				2016-P2-Q44		2014-P2-Q44	Samp-P2-Q45
						2017-P2-Q44	Prac-P2-Q44
						2018-P2-Q44	Prac-P2-Q45
						2019-P2-Q44	2012-P2-Q45
						2020-P2-Q44	2013-P2-Q45
						2021-P2-Q44	2014-P2-Q45
						2022-P2-Q44	2015-P2-Q45
						2023-P2-Q44	2016-P2-Q45
						2024-P2-Q44	2017-P2-Q45
							2019-P2-Q45
							2020-P2-Q45
							2022-P2-Q45
							2023-P2-Q45
							2024-P2-Q45
Cross Topic							

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Permutation and Combination NE

Section List

Sec 10.1 Basic Principles of Counting NF

Sec 10.2 Permutation NF

Sec 10.3 Combination NF

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 10.1																
Sec 10.2									3							
Sec 10.3										3				4		

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 10.1																
Sec 10.2				1		1					1		1		1	
Sec 10.3			1		1		1	1	1			1		1		

	10.1	10.2	10.3
Paper 1 - A(1)			
Paper 1 - A(2)			
Paper 1 - B		2018-P1-Q15	2019-P1-Q15
			2023-P1-Q15
Paper 2 - A			
Paper 2 - B		2013-P2-Q44	2012-P2-Q43
		2015-P2-Q43	2014-P2-Q43
		2020-P2-Q42	2016-P2-Q43
		2022-P2-Q42	2017-P2-Q42
		2024-P2-Q42	2018-P2-Q42
			2021-P2-Q42
			2023-P2-Q42
Cross Topic			

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More about Probability N

Section List

- Sec 11.1 Set Language NF
- Sec 11.2 Using Set Language in Probability NF
- Sec 11.3 Addition Law of Probability NF
- Sec 11.4 Multiplication Law of Probability for Independent Events NF
- Sec 11.5 Conditional Probability and Multiplication Law of Probability for Dependent Events NF
- Sec 11.6 Using Permutation and Combination to Solve Probability Problems NF

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 11.1																
Sec 11.2																
Sec 11.3																
Sec 11.4				4		4										
Sec 11.5					13											
Sec 11.6	5	4	4				3	6			5	4	4		4	

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 11.1																
Sec 11.2																
Sec 11.3																
Sec 11.4	1					1		1		1		1				
Sec 11.5			1							1			1	1	1	
Sec 11.6	1	1					1				1					

	11.1	11.2	11.3	11.4	11.5	11.6
Paper 1 - A(1)						
Paper 1 - A(2)						
Paper 1 - B				2013-P1-Q16	2014-P1-Q19	Samp-P1-Q16
				2015-P1-Q16		Prac-P1-Q16
						2012-P1-Q16
						2016-P1-Q15
						2017-P1-Q17
						2020-P1-Q15
						2021-P1-Q15
						2022-P1-Q15
						2024-P1-Q16
Paper 2 - A						
Paper 2 - B				Samp-P2-Q43	2012-P2-Q44	Samp-P2-Q44
				2015-P2-Q44	2019-P2-Q43	Prac-P2-Q43
				2017-P2-Q43	2022-P2-Q43	2016-P2-Q42
				2019-P2-Q42	2023-P2-Q43	2020-P2-Q43
				2021-P2-Q43	2024-P2-Q43	
Cross Topic						

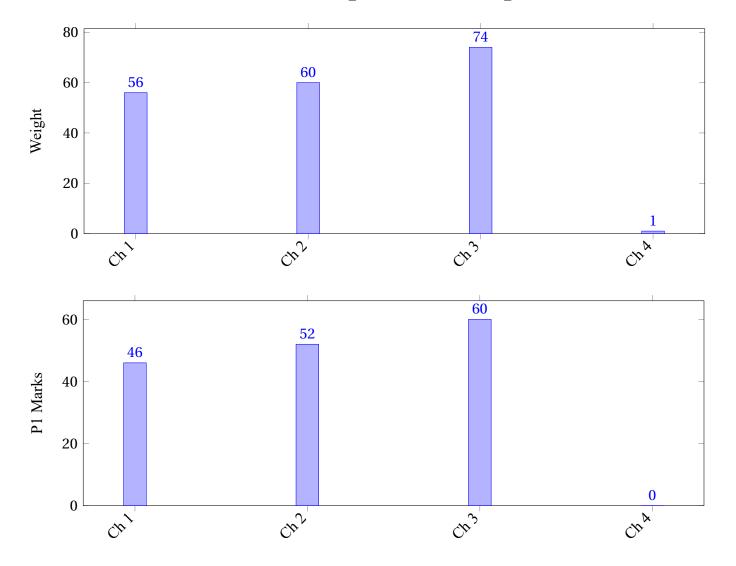
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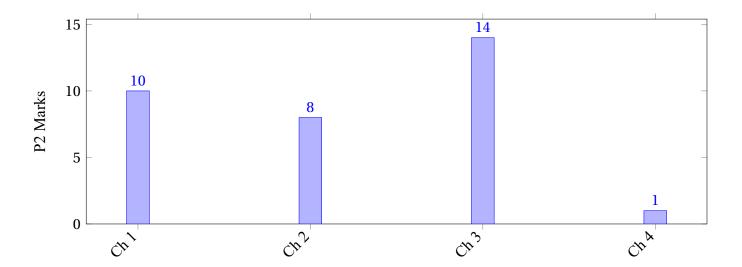
S6 Chapters

Chapter List

Ch 1.	Arithmetic and Geometric Sequences	P.130
Ch 2.	Summation of Arithmetic and Geometric Sequences NF	P.132
Ch 3.	More about Graphs of Functions	P.134
Ch 4.	Uses and Abuses of Statistics	P.136

Mark Distribution from Chapter 1 to Chapter 4





S6-Ch1

Arithmetic and Geometric Sequences

Section List

Sec 1.1 Review on Sequences

Sec 1.2 Arithmetic Sequences NF

Sec 1.3 Geometric Sequences NF

Sec 1.4 Problems Involving Arithmetic and Geometric Sequences NF

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 1.1																
Sec 1.2					4											
Sec 1.3									5	6	5					
Sec 1.4				13			5							8		

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 1.1																
Sec 1.2	1		1					1	1		1					
Sec 1.3					1	1				1		1	1			
Sec 1.4																

	1.1	1.2	1.3	1.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B		2014-P1-Q16	2018-P1-Q16	2013-P1-Q19
			2019-P1-Q16	2016-P1-Q17
			2020-P1-Q16	2023-P1-Q18
Paper 2 - A				
Paper 2 - B		Samp-P2-Q36	2014-P2-Q37	
		2012-P2-Q37	2015-P2-Q37	
		2017-P2-Q36	2019-P2-Q36	
		2018-P2-Q45	2021-P2-Q36	
		2020-P2-Q35	2022-P2-Q37	
Cross Topic				

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S6-Ch2

Summation of Arithmetic and Geometric Sequences

Section List

- Sec 2.1 Summation of a Sequence NF
- Sec 2.2 Summation of an Arithmetic Sequence NF
- Sec 2.3 Summation of a Geometric Sequence NF
- Sec 2.4 Applications of the Summation of Arithmetic and Geometric Sequences NF

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 2.1																
Sec 2.2	4											7	7			
Sec 2.3		12	13													
Sec 2.4						5		4								

DSE Core Paper 2

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 2.1																
Sec 2.2		1		1					1			1			1	
Sec 2.3							1		1							
Sec 2.4														1		

NI

	2.1	2.2	2.3	2.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B		Samp-P1-Q15	Prac-P1-Q19	2015-P1-Q17
		2021-P1-Q17	2012-P1-Q19	2017-P1-Q16
		2022-P1-Q17		
Paper 2 - A				
Paper 2 - B		Prac-P2-Q35	2016-P2-Q36	2023-P2-Q36
		2013-P2-Q38	2018-P2-Q43	
		2018-P2-Q35		
		2021-P2-Q45		
		2024-P2-Q36		
Cross Topic				

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S6-Ch3

More about Graphs of Functions

Section List

- Sec 3.1 Graphs of Some Functions
- Sec 3.2 Solving Equations Using the Graphical Method
- Sec 3.3 Solving Inequalities Using the Graphical Method
- Sec 3.4 Transformations of Functions NF

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 3.1																
Sec 3.2			7													
Sec 3.3																
Sec 3.4						9	6		8	12	6				12	

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 3.1																
Sec 3.2																
Sec 3.3	1															
Sec 3.4	2	2	2	1	1	1	1	1	1					1		

	3.1	3.2	3.3	3.4
Paper 1 - A(1)				
Paper 1 - A(2)		2012-P1-Q13		
Paper 1 - B				2015-P1-Q18
				2016-P1-Q18
				2018-P1-Q18
				2019-P1-Q19
				2020-P1-Q17
				2024-P1-Q19
Paper 2 - A			Samp-P2-Q8	
Paper 2 - B				Samp-P2-Q37
				Samp-P2-Q42
				Prac-P2-Q31
				Prac-P2-Q38
				2012-P2-Q38
				2012-P2-Q39
				2013-P2-Q39
				2014-P2-Q38
				2015-P2-Q39
				2016-P2-Q37
				2017-P2-Q31
				2018-P2-Q31
				2023-P2-Q35
Cross Topic				

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S6-Ch4

Uses and Abuses of Statistics

Section List

- Sec 4.1 Uses of Statistics
- Sec 4.2 Sampling Methods
- Sec 4.3 Data Collection Methods and Questionnaire Design
- Sec 4.4 Abuses of Statistics and Assessment of Statistical Investigations

DSE Core Paper 1

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 4.1																
Sec 4.2																
Sec 4.3																
Sec 4.4																

	Sa	Pr	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sec 4.1																
Sec 4.2																
Sec 4.3																
Sec 4.4	1															

	4.1	4.2	4.3	4.4
Paper 1 - A(1)				
Paper 1 - A(2)				
Paper 1 - B				
Paper 2 - A				Samp-P2-Q30
Paper 2 - B				
Cross Topic				

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