

Examination Analysis for 2002

	Content	April	August	December
Chapter 1	Truth Table	5*	4	6+4*
	Negative		4*	
	Tautology	1		
	Contradiction	1		
	Logical Equivalent Statements	4		
	Laws of the Algebra of Proposition		4	
	Arguments	3	2	4
Chapter 2	Set Element			2+1*
	Set Notation	1*		
	Subset			2*
	Power set	2*	3	
	Venn Diagram	4*		
	Union		1*	1
	Intersection			1
	Difference		1*	1
Chapter 3	Introduction to Relation		1	
	Product Set	2*	2*	
	Ordered Pairs	2		
	Reflexive Relation	2		2+2*
	Symmetric Relation	2	2	
	Transitive Relation	2+3*	2	2
	Anti-symmetric Relation			2
	Partial Ordering Relation			2
	Inverse Relation			1*
	Introduction to Function	2		
	Arrow Diagram		4*	
	Relation to Function	2		
	Range of Function	1		
	Injective Function	2	2	
	Subjective Function		2	
	Composite Function		2	
	Inverse Function	3	1+1*	

Chapter 4	Direct Proof	3*	3*	
	Contapositive Proof			5*
	Mathematical Induction	5	5	6
Chapter 5	The Product Rule	3		3
	Factorial	4		
	k-Sample	2*		2*
	k-Permutation		2*	2
	k-Combinations	2*	6+2*	2*
	k-Selection		2*	4
Chapter 6	Sample Space		7	4+2*
	Product Rule		2*	
	Sum Rule		2*	
	Finite Probability Spaces	2*		
	Conditional Probability		2	
	Distribution and Expectation	6		3
Chapter 7	Graph	4		
	Simple Graph			2
	Digraph	3		
	In-degree		1	
	Out-degree		1	
	Cycle	1		2*
	Bipartite Graph	1		4+2*
	Regular Graph	1		2*
	Adjacency Matrix		2	5
	Distance Matrix	3	2	
	Eulerian Trail		3	
	Eulerian Circuit		3	
	Eulerian Graphs	2		2
	Hamiltonian Cycle			2
Chapter 8	Matrix Operation		1	
	Matrix Multiplication	2*	2+3*	2*
	Matrices Transformation	2*	1*	1*