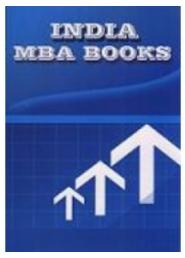
# QAM102 Business Mathematics I



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1 Module I : Set Theory

Definition of Set, Subset, Types of sets operations on sets; Venn diagram, DE Morgan's Laws. 10%

Applications of set theory.

2 Module II : Algebra

35%

Business mathematics: Scope and Importance; Functions of real variables, Linear, Exponential

Logarithmic, and Inverse functions with graph and illustrative examples; Arithmetic Progressions

(A.P.), Geometric progressions(G.P.) with simples examples

3 Module III : Compound Interest and Annuities

Different types of interest rates, Concept of present value and amount of a sum, Types of annuities; 20%

Types of annuities, Present value and amount of annuity including the case of continuous compounding, Valuation of loans, and debentures, Sinking funds.

4 Module IV: Matrices and Determinants

35%

Definition of a matrix; Types of matrices; Algebra of matrices; properties of determinants; calculation

of values of Determinants up to third order; Adjoint of a matrix, Finding inverse of a matrix; Rank of

a matrix, Solution of system of linear equations by Cramer's Rule and Matrix Inverse Method

(including not more than three variables).

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