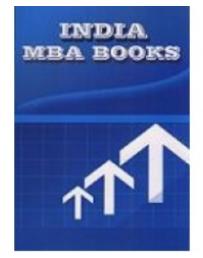
# QUANTITATIVE METHODS FOR BUSINESS -I



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Description

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# **1.5 QUANTITATIVE METHODS FOR BUSINESS - I**

## **OBJECTIVE**

To provide basic knowledge of quantitative methods and their application to commercial situations and for decision making in business. Unit 1: NUMBER SYSTEM 04 Hrs Introduction - Natural Numbers - Even Numbers - Odd Numbers - Integers - Prime Numbers – Rational & Irrational numbers, Real Numbers, HCF & LCM (Simple problems) **Unit 2: THEORY OF EQUATIONS 12Hrs** Introduction - Meaning - Types of Equations - Simple, Linear and Simultaneous Equations (only two variables) Eliminations and Substitution Method only. Quadratic Equation -Factorization and Formula Method ( $ax^2 + bx + c = 0$  form only). Problems on Commercial Application. Unit 3: PROGRESSIONS 12 Hrs Introduction - Arithmetic Progression - Finding the "nth term of an AP and Sum to nth term of AP. Insertion of Arithmetic Means in given terms of AP and representation of 3 terms of AP. Geometric Progression -Finding nth term of GP – Sum to "n?th Term of GP – Insertion of Geometric Means in given Geometric Progression and also representation of 3 terms of GP. **Unit 4: MATRICES AND DETERMINANTS 14Hrs** Introduction, Meaning, types of matrices - operations of addition, subtraction, multiplication of two matrices – problems, transpose of a square matrix. Determinant of a square matrix- minor of an element, co-factor of an element of a determinant. adjoint of a square matrix, singular and nonsingular matrices –

inverse of a square matrix – Problems on linear equations in two variables using Cramer?s rule.

Unit 5: COMMERCIAL ARITHMETIC 14 Hrs

Simple interest, Compound interest including half yearly and quarterly calculations, annuities Percentages,

bills discounting, concepts of Ratios, duplicate-triplicate and sub-duplicate of a ratio. Proportions, third,

fourth and inverse proportion - problems.

# Details

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