

# Quantitative Techniques for Management



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## Short Description

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**Quantitative Techniques for Management SOLVED PAPERS AND GUESS**

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**Pub. Date: NEW EDITION APPLICABLE FOR Current EXAM**

**Publisher: MEHTA SOLUTIONS**

**Edition Description: 2021-22**

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## **ABOUT THE BOOK**

### **FROM THE PUBLISHER**

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**Mathematics and Statistics For Management**

## **(Quantitative Techniques for Management)**

**Unit 1: Functions: Meaning and** definition of functions, types of functions, functions used in

business and economics. Determinants - Meaning of determinants, Evaluation of second & third order determinants, Cramers rule. Application of cramer's rule. Matrices –Meaning of matrix, order of matrix, algeebra of matrices, unit matrix, transpose of matrix, equality of two matrices, adjoint of matrix, universe of matrix, scaler multiplication of a matrix, Application of matrices in business. Mathematics of finance-interest calculation, annuity, present value annuity, present value concept in investment.

**Unit 2: Meaning of Central Tendency**, Types of central tendancy (Without Harmonic and Geometric Mean). Measure of Dispersion-range, mean deviation, quartile deviation Standard deviation & Variance. Correlation - Definition of correlation, Types of correlation Karl Pearson's correlation coefficient & its interpretation (continuous data be omitted). Regression: Meaning of regression, least square method, linear & non – linear regression.

**Unit 3 : Probabilty- Addition** and multiplication rules of probability, Baye's theorm, Discrete and Continous probability distribution. Bionomial, Possion and Normal probability distribution. Applies examples

**Unit 4: Time series and index numbers:** time series – basic concept, meaning, components of time series, three years and five years moving averages. Index numbers – concept, methods of measuring index, base year formulas for predicting index number. Concept of Statistical Quality Control (SQC), X- bar chart, R-Chart.

**Note: Problems/Examples should be solved using SPSS / EXCEL.**

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