

QUANTITATIVE TECHNIQUES



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Description

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Objective: The objective of this paper is to acquaint the students with quantitative and operations research techniques that play an important role in managerial decisionmaking.

Unit I

Introduction to Statistics: Meaning, Definition in singular and plural sense, Features of statistics, Importance, Functions, Scope and Limitations of Statistics. Measures of Central

Tendency: Mathematical averages including arithmetic mean,

geometric mean and harmonic mean, properties and applications. Positional Averages:

Mode and median (and other partition values including quartiles, deciles and percentile.

Graphic presentation of measures of central tendency.

Measures of Variation: Absolute and relative measures. Range, quartile deviation, mean deviation, standard deviation and their coefficients. Properties of Standard Deviation and Variance. Moments Concept, calculation and Significance. Skewness:

Meaning, Measurement using Karl Pearson and Bowley Measures. Concept of Kurtosis.

Unit II

Simple Correlation Analysis: Meaning of Correlation: Simple, multiple and partial, linear and non linear correlation, correlation and causation, scatter diagram, Pearson's correlation coefficient, calculation and properties of coefficient, Rank

Correlation. Simple Regression Analysis: Meaning of Regression, Principle of least

square and regression analysis, Calculation of regression coefficient, properties of

regression coefficient, Relationship between correlation and regression coefficient.

Theory of Probability: Meaning of Probability, Approaches to the calculation of

probability. Calculation of event probabilities, Addition and Multiplication Laws of Probability (Proof not required), Conditional Probability and Bayes' Theorem (Proof not required).

Unit III

Probability Distribution: Binomial Distribution, Poisson Distribution and Normal

Distribution with their properties and applications. Linear Programming; Formulation of linear programming problems. Solution by

Graphic method and by using Simplex method algorithm including Big-M method.

Business applications of LP. Degeneracy. Duality. Post-optimality analysis. Game

Theory: Two-person zero-sum games. Games of pure strategies and Games of

mixed strategies. Rule of dominance. Graphic solution to games. Business applications.

Unit IV

Transportation: Transportation problem: Initial feasible solution using North-west Corner Rule; Least Cost Method; and Vogel's Approximation Method. Testing optimality using MODI method.

Assignment Problems: Assignment problem: Solution using Hungarian Assignment

Method. Project Scheduling: PERT/CPM: Project networks. Scheduling of projects with known activity times – Critical path and scheduling of activities.

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