

QUANTITATIVE TECHNIQUES



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Description

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QUANTITATIVE TECHNIQUES

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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.

Managerial Economics

Objective: The objective of the paper is to acquaint the students with the economic concepts and principles and to enable them to use them to address business problems in a globalized economic environment.

Unit-I

Introduction to Managerial Economics: Managerial Economics: Meaning, Nature, Scope & Relationship with other disciplines, Role of managerial economics in decision Making, Opportunity Cost Principle, Production Possibility Curve, Incremental Concept, Scarcity Concept.

Demand: Demand and its Determination: Demand function; Determinants of demand; Demand elasticity – Price, Income and cross elasticity, Use of elasticity for analyzing demand, Demand estimation. Demand forecasting, Demand forecasting of new product.

Indifference Curve Analysis: Meaning, Assumptions, Properties, Consumer Equilibrium, Importance of Indifference Analysis, Limitations of Indifference Theory.

Unit-II

Production Function : Production function Meaning, Concept of productivity and technology, Short Run and long run production function, Isoquants; Least cost combination of inputs, Producer's equilibrium; Returns to scale; Estimation of production function. Theory of Cost: Cost Concepts and Determinants of cost, short run and long run cost theory, Modern Theory of Cost, Relationship between cost and production function. Revenue Curve: Concept of Revenue, Different Types of Revenues, concept and shapes of Total Revenue ,Average revenue and marginal revenue, Relationship between Total Revenue ,Average revenue and marginal revenue, Elasticity of Demand and Revenue relation.

Unit-III

Market Structure: Market Structure: Meaning, Assumptions and Equilibrium of Perfect Competition, Monopoly, Monopolistic Competition, Oligopoly: Price and output determination under collusive oligopoly, Price and output determination under non-collusive oligopoly, Price leadership model. Supply: Introduction to supply and supply curves. Pricing: Pricing practices; Commodity Pricing: Economics of

advertisement costs; Types of pricing practices. Factor Pricing: Demand and supply of factors of production; Collective bargaining, Concept of rent, profit, interest- Rate of return and interest rates; Real vs. Nominal interest rates. Basic capital theory–Interest rate and return on capital, Measurement of profit.

Unit-IV

Product market: Saving and Investment function, Consumption function, Aggregate supply and Aggregate demand, Investment multiplier, Foreign trade and budget multiplier. Money market: Motive for holding money; Liquidity preference, Money demand, Money market equilibrium. IS-LM Analysis: Derivation of nominal IS-LM and equilibrium. National Income: Conceptual Framework, Measures of National Income, Methods of Measurement, Limitations of National Income. Consumption Function: Meaning, and Nature, Determinants and Measures to Raise Propensity to Consume. Keynes Psychological Law of Consumption - Meaning, Properties and

FULLY SOLVED BOOK LASY 5 YEARS PAPERS SOLVED PLUS GUESS

FOUNDATIONS OF MANAGEMENT

Objective: This course presents a thorough and systematic coverage of management theory and practice. The course aims at providing fundamental knowledge and exposure of the concepts, theories and practices in the field of management. It focuses on the basic roles, skills and functions of management, with special attention to managerial responsibility for effective and efficient achievement of goals.

Unit I

Introduction: Definition, nature, scope, importance, Functions of management and manager, Managerial roles and skills.

Evolution of management thought and Management thinkers: Classical Approach, Neo Classical Approach, Quantitative approach, Behavioral approach, Systems approach, Contingency approach. Contributions of F. W. Taylor, Henry Fayol, Mary Parker Follet, Chester Bernard, Max Weber, Peter, F. Drucker, Gilbreths, Henry Gantt, Abraham Maslow, Herzberg and McGregor.

Unit II

Planning: Importance, types of plans, and process of planning, business forecasting, MBO: Concept, importance, process, benefits and limitations.

Strategic management: Nature, importance, purpose, types, process and major kinds of strategies, McKinsey's 7-S Approach.

Decision-Making: Importance, types, steps and approaches, Decision Making in various conditions, Decision tree.

Unit III

Organizing: Concept and process of organizing, Formal Vs Informal organization, Organizational structure: Types of Organizational structure, Bases of Departmentalization. Line & Staff: concept, line-staff conflict.

Authority & Power: concept, responsibility and accountability. Delegation: concept, importance, factors affecting delegation, effective delegation, Span of Management, Decentralization and centralization, Staffing, importance and process. Coordination: Concept, importance, difficulties and techniques to ensure effective coordination.

Unit IV

Control: Concept, importance, characteristics, process of control, types and techniques of control.

Comparative study: Japanese Management and Z-culture of American Companies, Chinese Style Management,

Modern management techniques: an overview of various latest techniques: Business process Re-engineering, Business outsourcing, knowledge management, E-Business Management.

Note: Relevant Case Studies should be discussed in class.

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