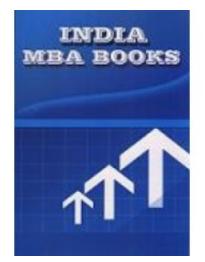# Operations Research

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Problems – Maximization and Minimization Cases – Optimality Conditions, Degeneracy.2) Dual-Formulation, Relationship between Primal-Dual, Solution of dual, Economic interpretation of dual.3) Sensitivity analysis and its implications. **Unit 3**1) Transportation Problem (TP) – Mathematical Model, IBFS using Northwest Corner Rule, Row and Column Minimum Methods, Matrix Minimum Method (LCM) and Vogel's Approximation Method, Unbalanced TP, Degeneracy, Optimality Test and Managerial Applications,2) Assignment Problem (AP): Mathematical Model, Unbalanced AP, Restricted AP, Method of Obtaining Solution – Hungarian Method.3) Traveling Salesman Problem, Managerial Applications of AP and TSP. **Unit 4**1) Network Fundamentals – Scheduling the Activities – Fulkerson's Rule – CPM – Earliest and Latest Times – Determination of ES and EF in the Forward Pass – LS and LF in Backward Pass Determination of Critical Path, Crashing, Time Cost Trade-Off.2) PERT-Beta Distribution, Probabilistic Models, Calculation of CP, Resource Analysis and Allocation,3) Network Flow Problems, Max. Flow – Min. Cut Theorem, Ford and Fulkerson's Algorithm for Obtaining Maximum Flow. Spanning Tree, Minimal Spanning Tree. **Unit 5**1) Queuing Theory – Concepts of Queue/Waiting Line – General Structure of a Queuing System – Operating Characteristics of Queues, Deterministic Queuing Models – Probabilistic Queuing Model – Cost Analysis – Single Channel Queuing Model – Poisson Arrival and Exponential Service Times with Infinite Population.2) Game Theory – Concepts, Saddle Point, Dominance, Zero-Sum Game, Two, Three and More Persons Games, Analytical Method of Solving Two Person Zero Sum Games, Graphical Solutions for (m×2) and (2×n) Games.3) Simulation – Process of Simulation, Applications of Simulation to Different Management Problems.

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