

# OPERATIONS RESEARCH



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

**Publisher: MEHTA SOLUTIONS**

**Edition Description: 2021-22**

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## **OPERATIONS RESEARCH**

### **Unit-I**

**Operations Research: Evolution, methodology and role in managerial decision making; Linear programming: Meaning, assumptions, advantages, scope and limitations; Formulation of problem and its solution by graphical and simplex methods; special cases in simplex method: infeasibility, degeneracy, unboundedness and multiple optimal solutions; duality.**

### **Unit-II**

**Transportation problems including transshipment problems; Special cases in transportation problems: unbalanced problems, degeneracy, maximization objective and multiple optimal solutions; assignment problems including traveling salesman's problem. Special cases in assignment problems: unbalanced problems, maximization objective and multiple optimal solutions.**

### **Unit-III**

**PERT/CPM: Difference between PERT and CPM, network construction,**

**calculating EST, EFT, LST, LFT and floats, probability considerations in PERT, time -cost trade-off. Decision theory: decision making under uncertainty and risk, Bayesian analysis, decision trees.**

#### **Unit-IV**

**Game theory, pure and mixed strategy games; principle of dominance; two person zero sum game; Queuing theory: concept, assumptions and applications; analysis of queue system, Poisson distributed arrivals and exponentially distributed service time models (MM1 and MMK); Simulation; meaning, process, advantages, limitations and applications.**

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