Design and Analysis of Algorithm Unit - 1 Introduction Notion of Algorithm - Fundamental of Algorithmic psublem solving - Important psioblem types - Fundamental of the analysis of algorithm efficiency - Analysis frame work - Asymptotic notations and his proporty - Mathematical analysis for necunsive and non-necunsive Algorithms. Unital Brute force idvide and Conquer Brute Force - Closest pain and convex Hull - Exhaustive search - Travelling salesman peroblem - Knapsack peroblem - Assignment problems - Divide and Conquer methodology - Mege sort -Quick sort - Binary search? Unit -3 Dynamic Programming and Gready Technique (Computing a Binomial core officient - Worshall's and Floyd's Algorithm - Optimal Binary search their - knapsock problem and memory functions - Greedy Technique - Paims Algorithm - Kruskol's Algorithm - Dijkstrots Algorithm - Huffman Gree

Unit 4 Iterating Improvement The Simplex method - The maximum flow problem - Maximum matching in bipartity graphs - Stable marourage problemmedical supposes that is the medical and the the property of the second second second second Unit -5 Coping with the limitations of Algorithm Power Back tracking - n Queen's problem -Hamiltonian circuit problem - Subset sum psublem - Branch and Bourd - Assignment poublem - Knapsack problem - Travelling salesman problem - Approximation Algorithms for PrNP, NP Complete problem