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CS-8451 Design and Analysis of Algorithms

Important 2Mark questions

Unit I

1. How to measure an algorithm's running time?
2. Write down the properties of asymptotic notations.
3. Define recurrence relation.

Unit II

1. What is closet-pair problem?
2. Derive the complexity of Binary Search algorithm.
3. Give the general strategy of Divide and Conquer method.

Unit III

1. What do you mean by dynamic programming?
2. State the general principle of greedy algorithm.
3. Define principle of Optimality.

Unit IV

1. What do you mean by 'perfect matching' in bipartite graphs?
2. State extreme point theorem.
3. State planar coloring graph problem.

Unit V

1. How NP-Hard problem are different from NP-Complete?
2. Define Hamiltonian Circuit problem.
3. What is Euclidean minimum spanning tree problem?