

Notes: 1. This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 4 units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub-questions.

PART - A**(25 Marks)**

- 1.a) Write an algorithm to find the number of digits in the binary representation of a positive decimal integer. [2]
- b) How can we measure an algorithm's running time? [3]
- c) What is a set? List the operations that can be performed on it. [2]
- d) Give brief note on graph coloring. [2]
- e) State the Job – Scheduling Deadline Problem. [2]
- f) Find an optimal solution to the knapsack instance with objects and the capacity of knapsack and CS, profits (10, 5, 7, 11) and weight (5, 4, 3, 5). [3]
- g) What is Travelling Sales Man Problem? [2]
- h) Give the statement of Reliability design problem. [3]
- i) State the methodology of Branch and Bound. [2]
- j) Define Bounding Function? Give the statement of Dr. Knapsack Problem. [3]

PART - B**(50 Marks)**

- 2.a) Explain Recursive Binary search algorithm with suitable examples. [5]
 - b) Distinguish between Merge sort and quick sort. [5]
- OR**
- 3.a) What is stable sorting method? Is Merge sort a stable sorting method? Justify your answer. [5]
 - b) Explain partition exchange sort algorithm and trace this algorithm for n=8 elements: 24, 12, 35, 23, 45, 34, 20, 48. [5]
4. Write and explain the algorithm of its connected components with an example. [10]
- OR**
5. Give the solution to the 8-queens problem using backtracking. [10]
6. What is Minimum cost spanning tree? Explain an algorithm for generating minimum cost Spanning tree and list some applications of it. [10]
- OR**
- 7.a) Explain the greedy technique for solving the Job Scheduling problem. [5]
 - b) Write with an example of Prim's algorithm. [5]

Navathe Sixth Edition Solutions

Michael Mannino



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Evolving Application Domains of Data Warehousing and Mining: Trends and Solutions Furtado, Pedro Nuno San-Banto, 2009-09-30 This book provides insight into the latest findings concerning data warehousing data mining and their applications in everyday human activities Provided by publisher

Handbook of Data Intensive Computing Borko Furht, Armando Escalante, 2011-12-09 Data Intensive Computing refers to capturing managing analyzing and understanding data at volumes and rates that push the frontiers of current technologies The challenge of data intensive computing is to provide the hardware architectures and related software systems and techniques which are capable of transforming ultra large data into valuable knowledge Handbook of Data Intensive Computing is written by leading international experts in the field Experts from academia research laboratories and private industry address both theory and application Data intensive computing demands a fundamentally different set of principles than mainstream computing Data intensive applications typically are well suited for large scale parallelism over the data and also require an extremely high degree of fault tolerance reliability and availability Real world examples are provided throughout the book Handbook of Data Intensive Computing is designed as a reference for practitioners and researchers including programmers computer and system infrastructure designers and developers This book can also be beneficial for business managers entrepreneurs and investors

Fundamentals of Database Systems Ramez Elmasri, Sham Navathe, 2007 This edition combines clear explanations of database theory and design with up to date coverage of models and real systems It features excellent examples and access to Addison Wesley s database Web site that includes further teaching tutorials and many useful student resources

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Database Design, Application Development, and Administration Michael Mannino, 2018-09-01 Formerly published by Chicago Business Press now published by Sage Database Design Application Development and Administration Seventh Edition offers a comprehensive understanding of database technology Author Michael Mannino equips students with the necessary tools to grasp the fundamental concepts of database management and then guides them in honing their skills to solve both basic and advanced challenges in query formulation data modeling and database application development

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