

UNIVERSITY OF PUNE
[4364]-761
B.E. (Computer Engineering)
(Semester - I) Examination - 2013
DESIGN ANALYSIS OF
ALGORITHMS
(2008 Pattern)

Total No. of Questions : 12

[Total No. of Printed Pages :4]

[Time : 3 Hours]

[Max. Marks : 100]

Instructions :

- (1) Answer any three questions from section 1 and questions from section 2.
- (2) Answers to the two sections should be written in separate answer-books.
- (3) Black figures to the right indicate full marks.
- (4) Neat diagrams must be drawn wherever necessary.
- (5) Assume suitable data, if necessary.

SECTION -1

Q. 1. a) Prove if $f(n) = a_m n^m + \dots + a_1 + a_0$ Then $f(n) = O(n^m)$ (8)

b) Write control abstraction for divide and conquer strategy. Give the reason why the quick sort is faster than merge sort. (6)

c) Explain the Greedy Kruskal's minimum spanning tree. (4)

OR

Q. 2. a) Prove by contradiction that "there are infinitely many prime numbers". (6)

b) Write and explain Dijkstra's algorithm for a directed graph. (6)

c) Write an algorithm for merge sort. State its time complexity. (6)

Q. 3. a) Solve the instance of 0/1 knapsack problem using dynamic

Programming: $n = 4, m = 25$ (8)

$(P_1, P_2, P_3, P_4) = (10, 12, 14, 16)$

$(W_1, W_2, W_3, W_4) = (9, 8, 12, 14,)$

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Introduction to Automata Theory, Formal Languages and Computation Shyamalendu Kandar, 2013 Formal languages and automata theory is the study of abstract machines and how these can be used for solving problems The book has a simple and exhaustive approach to topics like automata theory formal languages and theory of computation These descriptions are followed by numerous relevant examples related to the topic A brief introductory chapter on compilers explaining its relation to theory of computation is also given

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Table of Contents Solved Question Paper Pune University Engineering

1. Understanding the eBook Solved Question Paper Pune University Engineering
 - The Rise of Digital Reading Solved Question Paper Pune University Engineering
 - Advantages of eBooks Over Traditional Books
2. Identifying Solved Question Paper Pune University Engineering
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Solved Question Paper Pune University Engineering
 - User-Friendly Interface

4. Exploring eBook Recommendations from Solved Question Paper Pune University Engineering
 - Personalized Recommendations
 - Solved Question Paper Pune University Engineering User Reviews and Ratings
 - Solved Question Paper Pune University Engineering and Bestseller Lists
5. Accessing Solved Question Paper Pune University Engineering Free and Paid eBooks
 - Solved Question Paper Pune University Engineering Public Domain eBooks
 - Solved Question Paper Pune University Engineering eBook Subscription Services
 - Solved Question Paper Pune University Engineering Budget-Friendly Options
6. Navigating Solved Question Paper Pune University Engineering eBook Formats
 - ePub, PDF, MOBI, and More
 - Solved Question Paper Pune University Engineering Compatibility with Devices
 - Solved Question Paper Pune University Engineering Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solved Question Paper Pune University Engineering
 - Highlighting and Note-Taking Solved Question Paper Pune University Engineering
 - Interactive Elements Solved Question Paper Pune University Engineering
8. Staying Engaged with Solved Question Paper Pune University Engineering
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solved Question Paper Pune University Engineering
9. Balancing eBooks and Physical Books Solved Question Paper Pune University Engineering
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solved Question Paper Pune University Engineering
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Solved Question Paper Pune University Engineering
 - Setting Reading Goals Solved Question Paper Pune University Engineering
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Solved Question Paper Pune University Engineering
 - Fact-Checking eBook Content of Solved Question Paper Pune University Engineering
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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