

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)

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

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

Solved Question Paper Pune University Engineering

Sinha, G. R.



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Learning Outcomes With Learning Objectives is a pivotal reference source that provides vital research on the implementation of quality assessment methods for measuring the outcomes of select learning processes on students While highlighting topics such as quality assessment effective employability and student learning objectives this book is ideally designed for students administrators policymakers researchers academicians practitioners managers executives strategists and educators seeking current research on the application of modern mapping tools for assessing student learning outcomes in higher education

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ANTENNA ENGINEERING KUMAR, SANJAY,SHUKLA, SAURABH,2015-12-14 The book is primarily designed to cater to the needs of undergraduate and postgraduate students of Electronics and Communication Engineering and allied branches It also caters for fundamental requirements of professionals working on design and development of antenna and wave propagation related equipment either in research laboratories or industries or academic institutions elsewhere The book has been written with intent to grasp the basic understanding of theoretical as well as practical aspects of electromagnetic wave propagation and antenna engineering The text has been aptly scripted considering the requirements of average students who can easily grasp and comprehend the basics of wave propagation and radiation mechanism of varieties of antennas coupled with their critical functionalities utilities advantages disadvantages without any external assistance of teachers or other reference books The book broaches very well on practical methods of parametric measurements of antenna with right measuring test equipment and associated tools The last chapter of the book is dedicated to advance technology adopted in design and development of modern antenna Key features A fairly large number of well labelled diagrams to provide practical understanding of the concepts The placement of numericals at appropriate places develops confidence among readers and enthruses them further to read in depth to crack any regular or competitive examinations Chapter summary highlights important points for quick recap and revision before examination Well crafted multiple choice questions with answers at the end of each chapter to stimulate thought process and prepare better for viva voce and competitive examinations Appropriate number of unsolved numerical problems with answers to improve problem solving skill of students *Managing Education for Business and Commerce in a Globalized World* , *Competition Science Vision* ,2005-05 Competition Science Vision monthly magazine is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India Well qualified professionals of Physics Chemistry Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to the point study material for

aspiring candidates The magazine covers General Knowledge Science and Technology news Interviews of toppers of examinations study material of Physics Chemistry Zoology and Botany with model papers reasoning test questions facts quiz contest general awareness and mental ability test in every monthly issue **Careers Digest** ,1982 *Advanced Computing* Deepak Garg,Joel J. P. C. Rodrigues,Suneet Kumar Gupta,Xiaochun Cheng,Pushpender Sarao,Govind Singh Patel,2024-03-25 The two volume set CCIS 2053 and 2054 constitutes the refereed post conference proceedings of the 13th International Advanced Computing Conference IACC 2023 held in Kolhapur India during December 15 16 2023 The 66 full papers and 6 short papers presented in these proceedings were carefully reviewed and selected from 425 submissions The papers are organized in the following topical sections Volume I The AI renaissance a new era of human machine collaboration application of recurrent neural network in natural language processing AI content detection and time series data analysis unveiling the next frontier of AI advancement Volume II Agricultural resilience and disaster management for sustainable harvest disease and abnormalities detection using ML and IOT application of deep learning in healthcare cancer detection using AI Combo (set of 3 Books) 13 Year-wise CDS Mathematics, English & General Knowledge Previous Year Solved Papers (2018 - 2024) Phase I & II 2nd Edition | Combined Defence Services PYQs Disha Experts,2024-10-22 The 2nd Edition of the Combo set of 3 Books 14 Year wise CDS CDS OTA Mathematics English General Knowledge Solved Papers 2018 2024 consists of last 7 years Papers from 2018 Paper I 2024 Paper II Solved Papers of English In all there are 14 Question papers from 2018 to 2024 Practicing these questions aspirants will come to know about the pattern and toughness of the questions asked in the examination The book contains 4760 1400 in Maths 1680 in GK English each MILESTONE MCQs from the above 14 Question papers The strength of the book lies in the originality of its question papers and Errorless Solutions The solution of each and every question is provided in detail step by step so as to provide 100% concept clarity to the students These Year wise Papers can also be attempted as Mock Tests *Oswaal Indian Army Agniveer Sena General Duty (GD) (Agnipath Scheme) Question Bank | Chapterwise Topic-wise for General Knowledge | General Science | Mathematics For 2024 Exam* Oswaal Editorial Board,2024-01-23 Description of the product Concept Clarity with easy to grasp theory complemented with Solved Examples Extensive Practice with more than 1200 new Questions based on latest exam pattern and Two Sample Question Papers Crisp Revision with Mind Maps offering bite sized and just in time revision tool Expert Tips helps you get expert knowledge master crack Agniveer Sena GD in first attempt Exam insights with Chapter wise weightage Analysis empowering students to be 100% exam ready Quick Easy Techniques the book offers Shortcuts easy to follow Tips and Tricks to help readers solve exam questions efficiently

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