

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.

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**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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**Scott C. Dulebohn**



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processes International accreditation agencies and quality assessment networks are all focusing on mapping between outcomes and objectives The need of assessment tools arises that can provide a genuine mapping in the global context so that students or learners can achieve expected objectives Assessment Tools for Mapping 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 *Proceeding of the International Conference on Computer Networks, Big Data and IoT (ICCBI - 2018)* A. Pasumpon Pandian, Tomonobu Senju, Syed Mohammed Shamsul Islam, Haoxiang Wang, 2019-07-31 This book presents the proceedings of the International Conference on Computer Networks Big Data and IoT ICCBI 2018 held on December 19 20 2018 in Madurai India In recent years advances in information and communication technologies ICT have collectively aimed to streamline the evolution of internet applications In this context increasing the ubiquity of emerging internet applications with an enhanced capability to communicate in a distributed environment has become a major need for existing networking models and applications To achieve this Internet of Things IoT models have been developed to facilitate a smart interconnection and information exchange among modern objects which plays an essential role in every aspect of our lives Due to their pervasive nature computer networks and IoT can easily connect and engage effectively with their network users This vast network continuously generates data from heterogeneous devices creating a need to utilize big data which provides new and unprecedented opportunities to process these huge volumes of data This International Conference on Computer Networks Big Data and Internet of Things ICCBI brings together state of the art research work which briefly describes advanced IoT applications in the era of big data As such it offers valuable insights for researchers and scientists involved in developing next generation big data driven IoT applications to address the real world challenges in building a smartly connected environment *Managing Education for Business and Commerce in a Globalized World*, 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 **Comprehensive Guide to CDS**

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