

Anna University Question Bank

(Regulation 2013)

DESIGN AND ANALYSIS OF ALGORITHMS

UNIT I

INTRODUCTION

Notion of an Algorithm – Fundamentals of Algorithmic Problem Solving – Important Problem Types – Fundamentals of the Analysis of Algorithmic Efficiency –Asymptotic Notations and their properties. Analysis Framework – Empirical analysis - Mathematical analysis for Recursive and Non-recursive algorithms - Visualization

PART A QUESTIONS

1. Write an algorithm to find the number of binary digits in the binary representation of a positive decimal integer. (R 13 APR/MAY 2015)
2. Write down the properties of asymptotic notations. (R 13 APR/MAY 2015)
3. Design a brute force algorithm for computing the value of a polynomial $p(x)=a_nx^n+a_{n-1}x^{n-1}+...+a_1x+...$ at a given x_0 and determine its worst-case efficiency class. (R 13 APR/MAY 2015)
4. The $(\log n)$ th smallest number of n unsorted numbers can be determined in $O(n)$ average-case time. (True/False). (R 13 NOV/ DEC 2015)
5. Write the recursive Fibonacci algorithm and its recurrence relation. (R 13 NOV/ DEC 2015)
6. Give the mathematical notation to determine if a convex direction is towards left or right and write the algorithm. (R 13 NOV/ DEC 2015)
7. Prove that any comparison sort algorithm requires $\Omega(n \log n)$ comparison in the worst case. (R 13 NOV/ DEC 2015)
8. State how binomial coefficient is computed? (R 13 NOV/ DEC 2015)
9. Give the Euclid's algorithm for computing $\gcd(m,n)$. (R 13 MAY/JUN 2016)
10. Compare the order of growth of $n(n-1)/2$ and n^2 . (R 13 MAY/JUN 2016)
11. Design an algorithm to compute the area and circumference of a circle. (R 13 NOV/ DEC 2016)
12. Define recurrence relation. (R 13 NOV/ DEC 2016)
13. What is an Algorithm? (R 13 APR/MAY 2017)

Anna University Question Bank For Instrumentation Engineering

Clifford Lane



Anna University Question Bank For Instrumentation Engineering:

Engineering Chemistry-I (For 1st Semester of Anna University) Arun Luiz T., Engineering Chemistry I **Basic Electrical and Instrumentation Engineering** Sivaraman Palanisamy, Sharmeela Chenniappan, A. Thaiyal Nayagi, R. Mahendran, 2020-12-11 Electrical and instrumentation engineering is changing rapidly and it is important for the veteran engineer in the field not only to have a valuable and reliable reference work which he or she can consult for basic concepts but also to be up to date on any changes to basic equipment or processes that might have occurred in the field Covering all of the basic concepts from three phase power supply and its various types of connection and conversion to power equation and discussions of the protection of power system to transformers voltage regulation and many other concepts this volume is the one stop go to for all of the engineer's questions on basic electrical and instrumentation engineering There are chapters covering the construction and working principle of the DC machine all varieties of motors fundamental concepts and operating principles of measuring and instrumentation both from a high end point of view and the point of view of developing countries emphasizing low cost methods A valuable reference for engineers scientists chemists and students this volume is applicable to many different fields across many different industries at all levels It is a must have for any library *Handbook of Research on Innovations and Applications of AI, IoT, and Cognitive Technologies* Zhao, Jingyuan, Kumar, V. Vinoth, 2021-06-25 Recently artificial intelligence AI the internet of things IoT and cognitive technologies have successfully been applied to various research domains including computer vision natural language processing voice recognition and more In addition AI with IoT has made a significant breakthrough and a shift in technical direction to achieve high efficiency and adaptability in a variety of new applications On the other hand network design and optimization for AI applications addresses a complementary topic namely the support of AI based systems through novel networking techniques including new architectures as well as performance models for IoT systems IoT has paved the way to a plethora of new application domains at the same time posing several challenges as a multitude of devices protocols communication channels architectures and middleware exist Big data generated by these devices calls for advanced learning and data mining techniques to effectively understand learn and reason with this volume of information such as cognitive technologies Cognitive technologies play a major role in developing successful cognitive systems which mimic cognitive functions associated with human intelligence such as learning and problem solving Thus there is a continuing demand for recent research in these two linked fields The Handbook of Research on Innovations and Applications of AI IoT and Cognitive Technologies discusses the latest innovations and applications of AI IoT and cognitive based smart systems The chapters cover the intersection of these three fields in emerging and developed economies in terms of their respective development situation public policies technologies and intellectual capital innovation systems competition and strategies marketing and growth capability and governance and relegation models These applications span areas such as healthcare security and privacy industrial systems multidisciplinary

sciences and more This book is ideal for technologists IT specialists policymakers government officials academics students and practitioners interested in the experiences of innovations and applications of AI IoT and cognitive technologies

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Medicine (U.S.),1982 First multi year cumulation covers six years 1965 70 *Innovating STEM Education: Increased Engagement and Best Practices* Eugenia Koleza,Christos Panagiotakopoulos,Constantine Skordoulis,2022-09-15 In recent years there has been a focus on promoting the uptake of STEM subjects in schools This has been driven by the need to ensure that young people gain the knowledge and skills essential to help them participate in a society in which mathematics science and technology are increasingly important Nevertheless reform efforts including curriculum development have treated the STEM subjects mostly in isolation Recognizing that efforts for education within each individual STEM discipline would encourage a wide range of conservations about different important aspects of teaching and learning this conference considered the potential benefits and challenges for the integration of various STEM s characteristics into education In order to prepare students to address the problems of our society it is necessary to provide them with opportunities to understand these problems through rich engaging and powerful experiences that integrate the disciplines of STEM This volume contains selected papers presented at the Hellenic Conferences Innovating STEM education HiSTEM 2016 and 2018 organized by the Postgraduate Program Interdisciplinary Approach on Science Technology Engineering and Mathematics in Education STEM Education stemeducation upatras gr The first eleven papers were presented at the HiSTEM 2016 Conference and the last six papers at the HiSTEM 2018 Conference These papers were selected after a peer review process from the conferences submitted papers The conferences provided a platform for dissemination of best practices in teaching and learning STEM in Greece and also inspired and empowered STEM educators to improve teaching quality to increase engagement in STEM education and career pathways to connect students with real life industry relevancy and to drive creativity inquiry based learning problem solving and project based learning Index of Conference Proceedings ,1990 **Network World**

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