

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)

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