

Jharkhand University of Technology, Ranchi
4th Semester B.Tech. Examination, 2022

Subject : Design and Analysis of Algorithms
Time Allowed : 3 Hours

Subject Code : CS-402
Full Marks : 70

Candidates are required to give their answers in their own words as far as practicable.

*Question No. 1 is mandatory and answer any four questions from the rest.
The figures in the right-hand margin indicate full marks.*

1. Choose the correct alternative:

2×7=14

(i) Let s be a sorted array of n integers. Let $t(n)$ denote time taken for the most efficient algorithm to determine if there are two elements with sum less than 1000 in s . Which of the following statements is true?

(a) $t(n)$ is $O(1)$

(b) $n \leq t(n) \leq n \log_2 n$

(c) $n \log_2 n \leq t(n) < \binom{n}{2}$

(d) $t(n) = \binom{n}{2}$

(ii) Let G be an undirected graph. Consider a depth-first traversal of G , and let T be the resulting depth-first search tree. Let u be a vertex in G and let v be the first new (unvisited) vertex visited after visiting u in the traversal. Which of the following is always true?

(a) $\{u, v\}$ must be an edge in G , and u is a descendant of v in T

(b) $\{u, v\}$ must be an edge in G , and v is a descendant of u in T

(c) If $\{u, v\}$ is not an edge in G then u is a leaf in T

(d) If $\{u, v\}$ is not an edge in G then u and v must have the same parent in T

(iii) Randomized quicksort is an extension of quicksort where the pivot is chosen randomly. What is the worst case complexity of sorting n numbers using randomized quicksort?

(a) $O(n)$

(b) $O(n \log n)$

(c) $O(n^2)$

(d) $O(n!)$

(iv) What is the minimum number of stacks of size n required to implement a queue of size n ?

(a) One

(b) Two

(c) Three

(d) Four

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Please Turn Over

Question Paper For Btech

Subhash Jain



Question Paper For Btech:

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Dr. T.K.V. Iyengar, Dr. M.V.S.S.N. Prasad, S. Ranganatham & Dr. B. Krishna Gandhi, This edition is an improvement on the earlier edition made with some topics have been updated and inclusion of previous Question Paper problems at appropriate places and Previous GATE Questions at the end of each chapter for the benefit of the students The treatment of all topics has been made as simple as possible and in some instances with detailed explanation as the book are meant to be understood with a minimum effort on the part of the reader *Engineering Physics - I (U.P. Technical University, Lucknow)* Dr. A.K. Katiyar, Narinder Kumar, 2010

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