

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)

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

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

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