

MARWARI COLLEGE RANCHI

Subject : Design & Analysis of Computer Algorithm

Full Marks : 30

Paper : XIV

Time : 1Hr.

MCA SEMESTER 3

Mid semester examination 2015

1. Fill in the blanks: 2 x 5 = 10
 - a. Space complexity of quick sort.....
 - b. The time complexity of Merge sort.....
 - c. The Time and space complexity of binary search for successful searchesand for unsuccessful searches.....
 - d. The space complexity of an algorithm is the amount of It needs to run to completion.
 - e. All algorithms must satisfy the following criteria.....
2. Answer Any **TWO** Questions: 5 x 2 = 10
 - a. What is a pseudo code convention? Explain it.
 - b. How can evaluate the performance of algorithm? Explain with example.
 - c. What is binary search method?
3. Answer any **ONE** question: 10 x 1 = 10
 - a. What is merge sort? Write down the algorithm of merge sort.
 - b. What is Knapsack problem? Write down the algorithm of Knapsack problem.
 - c. What do you mean by job sequencing with deadline? Write down the algorithm of quick sort.