

St. Joseph's College (Autonomous), Bangalore  
I Semester IA Examination, Aug 2016  
M.Sc (Computer Science)  
CS 7215 : Design Methods And Analysis Of Algorithms

Time 1.5Hrs

Max Marks 35

PART- A

Answer any FIVE questions

7 x 5 = 35

1. What is an Algorithm? Explain few features of an algorithm.
2. Write down the Binary Search Algorithm and analyze it.
3.
  - a. What is the control abstraction for Divide and Conquer Method?
  - b. Write down Divide and Conquer Max Min Algorithm.
4. Explain Quick Sort Algorithm with a suitable example.
5. Write down an algorithm to insert and delete an element from a linear queue.
6. Explain Strassen's Matrix Multiplication.
7. Write down the algorithm for linear search and analyze it.