Roll No. ☐☐☐☐☐☐☐☐☐☐

MCA-10, M.Sc.(CA)-9
2nd Year Examination, Calendar Batch 2016
Design Analysis of Algorithms

Time : 3 Hours]   *[Max. Marks : 100*

Note. *Attempt any five questions. All questions carry equal marks.*

Q. 1. Discuss Kruskal and Prims algorithm. Drive its Complexity.

Q. 2. What are hash tables? How do we make good choice of hash function?

Q. 3. Write short on following:
    (a)NP-HARD   (b) NP-COMPLETE PROBLEMS

Q. 4. What do you mean by the Red-Black Tree? Explain the property of Red-Black Tree with an Example.

Q. 5. What is splay tree? Explain its advantage.

Q. 6. What do you mean by Convex Hull? Write down an Convex Hull algorithm.

Q. 7. What do you mean by algorithm? Analysis the insertion sort in worst case

Q. 8. Explain about dynamic Programming? Write down the Huffman code algorithm.