

Code No: R7211203

R7

II B.Tech I Semester(R07) Supplementary Examinations, November 2010

ADVANCED DATA STRUCTURES AND ALGORITHMS

(Common to Information Technology and Computer Science & Systems Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) What are objects? How are they created? Give example.
(b) How is a member function of a class defined? [8+8]
2. Write a program using templates to implement for finding the minimum and maximum value contained in an array. [16]
3. Explain in detail how function calls are implemented using Stacks. [16]
4. (a) Discuss about the find routine for hashing Quadratic Probing.
(b) Write the find routine for hashing Quadratic Probing. [8+8]
5. Explain in detail about Multiway Merge with example. [16]
6. Explain in detail about Insertion operation on a Binary search tree. [16]
7. Explain in detail the applications of Divide and Conquer strategy. [16]
8. (a) How do you determine whether a give job sequence has a feasible solution or not.
(b) Prove that the Greedy method always obtains an optimal solution to the job sequencing problem. [6+10]


