Code :CS05007



III B.Tech I Semester(R05) Supplementary Examinations, May 2011 ADVANCED DATA STRUCTURES (Computer Science & Engineering)

(For students of RR regulation readmitted to III B.Tech I Semester R05)

Time: 3 hours Max Marks: 80

Answer any FIVE questions All questions carry equal marks

- 1. (a) What do you mean by this pointer? Give Example.
 - (b) Write a simple C++ program which explains the concept of friend function.
- 2. (a) What is inheritance? Explain the different types of inheritance.
 - (b) Explain base and derived classes and base class access control.
- 3. (a) What are various types of linked list? Explain them.
 - (b) Give an ADT for the stack.
- 4. (a) List out the difference between hashing and skip list.
 - (b) Discuss extensible hashing with suitable example.
- 5. Define max tree, max heap, min heap with suitable example.
- 6. Provide the specification for abstract data type bsTree(Binary search tree) and C++ abstract class to this ADT.
- 7. (a) Write pseudo code for right rotate in red black tree
 - (b) Write a insertion algorithm for red black tree. Also analyze its complexity.
- 8. Write an algorithm for suffix tries and derive it time complexity.
