

Subject Code: G4001/R13

M. Tech – I Semester Regular/Supplementary Examinations, April, 2015
ADVANCED DATA STRUCTURES/ ADVANCED DATA STRUCTURES AND
ALGORITHM ANALYSIS/ DATA STRUCTURES
(Common to IT, CS&T, CS and SC&E)

Time: 3 Hours

Max Marks: 60

Answer any FIVE questions
All questions carry EQUAL marks

1. Explain all the operations of double linked lists ?
2. Explain merge and insertion sorts with suitable examples?
3. Explain separate chaining and open addressing in detail?
4. Explain all the operations of binary search tree?
5. Explain the operations on AVL Trees in detail?
6. a) Explain the procedure to sort the nodes in a single linked list?
b) Explain breadth first travel with an example?
7. a) Explain how post fix can be evaluated?
b) Explain one of the ways to represent a Hash table?
8. a) Explain the concept of Dequeue?
b) What is the purpose of Red-Black Trees?
