(b) Give a brief idea about tournament sort. [6]

7. Describe the following : [16]

(a) Binary search

(b) Merging

Unit-IV

8. What do you mean by file organization ? Explain in detail. [16]

9. Write short notes on the following :

(a) Hashing [8]

(b) File operation [8]

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B.C.A. 4th Semester

Examination–May, 2016

Data Structure-II

Paper-BCA-207

Time : 3 hours   *Max. Marks : 80*

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

Note : Attempt five questions in all. Question No. 1 **compulsory**. Students will have to attempt **four** more questions selecting **one** question from each unit.

1. Explain the following : [4×4=16]

(a) AVL Tree

(b) Traversal of Graph

(c) Sorting

(d) File

Unit-I

2. (a) What is Binary search tree ? Explain in detail the insertion and deletion in a binary search tree. [10]

(b) Give a brief idea about general trees.

[6]

3. Describe the following : [16]

(a) Huffman's algorithm

(b) M-Way search tree

Unit-II

4. (a) Describe Warshall's algorithm for shortest path with example. [8]

(b) Explain the different operations performed on graph. [8]

5. Explain the following : [16]

(a) Topological sorting

(b) Traversal of graph

Unit-III

6. (a) Compare various sorting algorithms on the basis of their complexity.

[10]