

Printing Page(s) : 1

Paper Code :DCS-104

Roll No.

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DCA-4, ADCA-4, BCA-3
1st Year Examination, Calendar Batch 2017
Data Structure Through C

Time : 3 Hours]

[Max. Marks : 100

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

Q.1 Which of the sorting algorithm has best performance in terms of storage and time complexity your answer?

Q.2 Draw the tree from the following-

- a) IN- EACKFHDBG
PRE- FAEKCDHGB
- b) IN - DBFEAGCLJHK
POST- DFEBGLJKHA

Q.3 Explain various heap sort methods?

Q.4 Write down the non recursive algorithm of binary tree traversal in in-order.

Q.5 Explain the term data structure. Also differentiate between built-in and user defined data structure

Q.6 Explain the concept of pointer & static variables?

Q.7 What is a stack? Write algorithm to insert and delete an item from the stack.

Q.8 Differentiate between the concept of top-down & bottom-up programming?