

Roll No.

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Total No. of Pages : 2

Total No. of Questions : 07

BCA (Sem.-3)

DATA STRUCTURES

Subject Code : BSBC-302 (2011 Batch)

Paper ID : [B0229]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students has to attempt any FOUR questions.

SECTION-A**I. Write briefly :**a2zpapers.com

- a. What is time space trade-off?
- b. What do you mean by Algorithm Complexity?
- c. Define Searching. Name two techniques for the same.
- d. Differentiate between Polish Notation and Reverse Polish Notation.
- e. How can one traverse the circular queue?
- f. Define the height of a binary tree.
- g. What do you mean by Garbage Collection?
- h. What is 'Generalized list'?
- i. What is the function of Priority Queue(s)?
- j. How does Binary tree differ from simple tree?

SECTION-B

2. Name and explain, in detail, different types of Data Structures. Also explain significance of each.
3. What are the points to be considered before choosing a technique for Garbage Collection? Discuss different techniques for Garbage Collection.
4. Discuss different Sorting Algorithm(s) in detail along with their complexities.
5. Define Circular Queues. How can one insert/delete an item to a circular queue?
6. Explain the following :
 - (a) Recursion
 - (b) Dynamic Storage Management
7. How can one traverse a binary tree? Discuss in detail with example(s).

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