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# Exam. Code : 107204 Subject Code : 2128

## Bachelor of Computer Application (BCA) 4th Semester

#### **DATA STRUCTURES & FILE PROCESSING**

#### Paper-I

Time Allowed—3 Hours] [Maximum Marks—75

**Note** :— Attempt any **FIVE** questions. All questions carry equal marks.

- (a) Discuss any three applications of stacks with suitable examples.
  - (b) Write down the relative advantages and disadvantages of arrays and linked lists.
- 2. Write algorithm for converting arithmetic expression from infix notation to polish notation.
- 3. Show with an example how can graphs be represented in computer memory ? Give relative merits and demerits of each representation scheme.
- 4. Explain how the following elements will be inserted in a binary search tree :

### A,V,L,T,R,E

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(Contd.)

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- 5. Explain the algorithm for Heap Sort.
- 6. Explain the algorithm for Binary Search.
- Explain the concept of blocking and compaction in File Organization.
- 8. Explain the concept of indexed Sequential Technique in File organization for accessing data.

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