QP Code: 1221QP

Seat No.

Total No. of Pages: 2

## January - February (Winter) Examination - 2023

Subject Name: B.C.A. (CBCS)\_83376\_Data Structure using C\_16.01.2023\_10.30 AM To 01.30 PM

Subject Code: 83376

Day and Date: Monday, 16-01-2023 (B.C.A.II, SEM - III Time: 10:30 am to 01:30 pm

**Total** Mark s: 70

Instructions.:

1) All questions are compulsory

Special Instruction.:

1) Que.No.1 and Que. No.6 are compulsory 2) Attempt any three Questions from Que. No.2 to Que. No. 5.

## A) Multiple Choice Questions (10 Marks) Q.1.

[20]

- 1) A stack is a linear data structure in which data is stored and retrieved in a:
- 1. Last out first in
- 2. Last in first out
- 3. First in first out
- 4. Last out lost in
  - 2) A terminal node in a tree is called ......
- 1. Root
- 2. Leaf
- 3. Child
- 4. Branch
  - 3) Which indicates pre-order traversal?
- 1. Left sub-tree, Right sub-tree and root
- 2. Right sub-tree, Left sub-tree and root
- 3. Root, Left sub-tree, Right sub-tree
- 4. Right sub-tree, root, Left sub-tree
  - 4) The retrieval of items in a stack is ...... operation.
- 1. push
- 2. pop
- 3. retrieval
- 4. access
  - 5) Before inserting into stack one must check the condition .......
- 1. Overflow
- 2. Underflow
- 3. Maximum elements
- 4. Existing elements





