Roll No. | | | | | | | | | | | | **Total No. of Pages : 01**

Total No. of Questions : 08

BCA / B.Sc. (IT) (Sem.–3)

DATA STRUCTURES

Subject Code : UGCA1915

M.Code : 78181

Date of Examination : 13-07-21

Time : 2 Hrs. **Max. Marks : 60**

INSTRUCTIONS TO CANDIDATES :

1. **Attempt any FIVE question(s), each question carries 12 marks.**

1. Differentiate between arrays and linked list. How sorting is performed in Linked List?
2. Perform insertion and selection sort on given array.

   55, 47, 88, 12, 30, 99, 23, 65, 71
3. How to convert in-fix notation into post-fix notation? Explain.
4. What is BST? Explain its traversals.
5. What is a pointer? How dynamic memory is allocated?
6. Write a note on Threaded Binary Tree.
7. What are Deque? How it is different from priority queue?
8. Explain depth first search and breadth first search in graphs.