B.C.A. DEGREE EXAMINATION,ODD SEMESTER 2020
II Year III Semester
Data Structures and Algorithms

Max.marks :25

Answer any **FIVE** questions $(5 \times 5 = 25)$ Marks

1. What are primary data type? How do they differ from composite data type?
2. Elucidate about the doubly linked list.
3. Write an algorithm to convert the given infix expression A/B^C+D*E into the postfix form.
4. Explain the steps to convert a forest to a binary tree.
5. Discuss the hash tables and hash functions.
6. Write an algorithm to implement stack using array.
7. Write Dijkstras algorithm to determine the shortest path.