M. Sc. 1st Semester Examination – 2019 (DDE)

(Old Syllabus)

Subject: Computer Science

Paper: MCS – 101 (Advanced Data Structures and Algorithms)

Full Marks: 22½ Time: 1 Hour

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer question number 1 and any three questions from the rest.

1)	Write short note on any one of the following:	$7\frac{1}{2}$
	a) Notations for Asymptotic Analysis of algorithmsb) Graph Traversal Algorithms	
2)	Write down the algorithm to evaluate postfix expression.	5
3)	Design an algorithm of "Merge Sort"	5
4)	Write down the algorithm of Binary Search Method.	5
5)	Write code / algorithm to insert a new node in binary search tree (BST).	5
6)	Write code / algorithm for deletion of a node (any position) from a singly linked list.	5