

S.D.E.
M.C.A. Sem -II : WINTER - 2018
SUBJECT: DATA STRUCTURES

Day: Wednesday
Date: 28/11/2018

Time: 02.00 PM TO 05.00 PM
Max. Marks: 80

W-2018-4796

N.B.:

- 1) Attempt any **FIVE** questions from Section –I and any **TWO** questions from Section –II.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SAME** answer book.

SECTION-I

- Q.1** Explain ADT and also explain ADT stack. (10)
- Q.2** What is recursion? Write a recursive algorithm for tree traversal. (10)
- Q.3** Explain QUEUE with its array implementation. (10)
- Q.4** Discuss different tree traversal techniques with example. (10)
- Q.5** Explain quick sort and insertion sort techniques. (10)
- Q.6** Explain linear search with example. (10)

SECTION-II

- Q.7** Write a program to insert a number of any positions in a circular linked list. (15)
- Q.8** Write a program to convert infix expression to prefix expression. (15)
- Q.9** Write a program to find a element in a binary tree. (15)

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