

**S.D.E.**  
**M.C.A. Sem - I (Old Course) : SUMMER - 2019**  
**SUBJECT : PROCEDURE ORIENTED PROGRAMMING**

Day : Saturday  
Date : 04/05/2019

Time : 10.00 AM TO 1.00 PM  
Max. Marks : 80

**S-2019-5252**

**N.B.:**

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

**SECTION – I**

- Q.1** Discuss various data types in C. [10]
- Q.2** Differentiate between ‘while’ and ‘do.....while’ loop with example. [10]
- Q.3** Explain ‘string’ in C along with the built in functions for string. [10]
- Q.4** Discuss memory management in ‘C’ with respect to allocation and deallocation functions in C. [10]
- Q.5** Explain storage classes in C. [10]
- Q.6** Differentiate between structures and unions. [10]
- Q.7** Write short notes on **ANY TWO** of the following: [10]
- a) Pointer operations
  - b) Operators in C
  - c) Library functions in C

**SECTION – II**

- Q.8** Write a program which will accept a string and count number of alphabets, digits and spaces from the string. [15]
- Q.9** Write a program demonstrate the concept of call by value and value of reference with example. [15]
- Q.10** Write a program to read a file and print it in reverse. [15]

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