

Subject : C-Programming & Data Structures

Day : Friday
Date : 09/12/2016



Time : 02.00 PM TO 05.00 PM
Max Marks : 80 Total Pages : 1

N.B:

- 1) Attempt **ANY FIVE** questions from Section-I. Each question carries **10** marks.
 - 2) Attempt **ANY TWO** From Section-II. Each question carries **15** marks.
 - 3) Answers to both the sections should be written in the **SAME** answer book.
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SECTION-I

- Q.1** Define structure. How is a structure declared and initialized? Give an example. **(10)**
- Q.2** What is recursion? Write a C program to display factorial of given no. with recursion. **(10)**
- Q.3** Define array. What are different types of array? Write a program to sort the numbers using bubble sort method. **(10)**
- Q.4** What is a stack? What are different operations that are performed on the stack? **(10)**
- Q.5** What is pointer? How does it work? **(10)**
- Q.6** Define a function. Explain various string handling functions available in C with suitable example. **(10)**
- Q.7** Write Short notes on (**ANY TWO**) of the following: **(10)**
- a) Linked list
 - b) Binary tree
 - c) Local / Global variable

SECTION-II

- Q.8** What are standard input/ output functions in C? Explain any five standard functions with syntax and example. **(15)**
- Q.9** Write a program to add to matrices of order m x n. **(15)**
- Q.10** Explain data structure queue. What are the basic operations performed on a queue. **(15)**

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