

B.Sc. - I (CBCS Pattern) Semester-II  
**USCST04 - Computer Science Paper-II - Structured Programming With C**

P. Pages : 2

Time : Three hours



**GUG/S/25/11577**

Max. Marks : 50

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- Notes :
1. All questions are compulsory and carry equal marks.
  2. Draw neat and labelled diagram wherever necessary.
  3. Avoid vague answer and write specific answers related to questions.

**Either:**

1. a) Write a program in 'C' to initialize 5 elements and sum the elements of an array. 5
- b) Write a program for transpose of matrix of size. MxN. 5

**OR**

- c) Explain two-dimensional array with example. 5
- d) Write a note on: 5
  - i) strcmp()
  - ii) strcat()

**Either:**

2. a) What do you mean by Union? Explain the concept of union. 5
- b) A Program to enter the marks of 5 subjects of 3 students and also find the total marks of each student using structure with array. 5

**OR**

- c) What is structure? Explain its need. 5
- d) Write a program to define and accept the element of union employee, having members Empno, Ename, Salary and display it. 5

**Either:**

3. a) Write a 'C' program to find factorial of a given number using recursion. 5
- b) Explain Register storage class with example. 5

**OR**

- c) Explain the concept of passing structure elements to function with example. 5
- d) What is user defined function? Write its advantages. 5

**Either:**

4. a) Write a 'C' program to swap two numbers using call by reference function. 5
- b) Explain any two-file mode operation. 5

**OR**

- c) Define Pointer. Explain the Declaring and Initializing of pointer variable. 5
- d) Explain the concept of opening and closing file in C. 5
5. All are compulsory.
- a) Write any two-string library function. 2½
- b) Write a note on sizeof(). 2½
- c) Write advantages of user define function. 2½
- d) Explain the use of Period operator in accessing structure member. 2½

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