

**USCST04 - Computer Science - Paper- II : Structured Programming with C**

P. Pages : 1

GUG/W/22/11577

Time : Three Hours



Max. Marks : 50

- Notes : 1. All questions are compulsory and carry equal marks.  
2. Draw neat and labelled diagram and use supporting data wherever necessary.

Either

1. a) Write a program in C to find transpose of a matrix. **5**  
b) What is merging? Explain with example. **5**

**OR**

- c) Write a program in C to arrange five names in descending order. **5**  
d) Write a program in C to add two 3 x 3 matrices. **5**

Either

2. a) Explain period operator with example. **5**  
b) Write a program in C to print student name, age & percentage using structure. **5**

**OR**

- c) Describe the concept of nested structure. **5**  
d) Write a program in c to take five employees name, age, salary and post using structure & display it. **5**

Either

3. a) Write a program in C to perform square and cube of a number using user defined functions. **5**  
b) How structure element is pass to function? Explain. **5**

**OR**

- c) Explain category of functions. **5**  
d) Write a program in C to find factorial of number using Recursion. **5**

Either

4. a) Write a note on modes of files. **5**  
b) Explain pointer declaration and initialization with example. **5**

**OR**

- c) Describe command line argument with example. **5**  
d) Write a program in C to store 10 employees information in emp.dat file. **5**

5. Attempt all questions.  
a) Write a note on strcpy() and strcat(). **2½**  
b) What is enum? Explain. **2½**  
c) Write a program in C to perform multiplication of two numbers using function. **2½**  
d) Write a note on fclose( ) function. **2½**

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