

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

P. Pages : 2

Time : Three Hours



GUG/W/24/11577

Max. Marks : 50

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

Either:

1. a) What is Merging? Explain with example. 5
- b) Write a program to search an element S among N numbers using C. 5

OR

- c) Explain the following string functions: 5
 - i) `strlen ()`
 - ii) `strcat ()`
- d) Write a program to Transpose the matrix of size M*N. 5

Either:

2. a) What is Structure? Explain with syntax and example. 5
- b) Write a program in 'C' to display book information like name, author and price using structure. 5

OR

- c) Explain nested structure with example. 5
- d) Write a program in 'C' to take five employees name, age, salary and post using structure & display it. 5

Either:

3. a) Explain "No argument with Return value" function with example. 5
- b) Explain nesting of function in detail with suitable example. 5

OR

- c) How structure element is pass to function? Explain. 5

- d) Write a program in C to perform square and cube of a number using user defined functions. 5

Either:

4. a) Write a note on modes of files. 5
- b) What is call by value? Explain with example. 5

OR

- c) Explain the following file handling function in 'C' 5
- i) fscanf () ii) fprintf ()
- d) Write a program in 'C' to insert 10 records of student in "stud. TXT" file. 5

5. Solve all questions.

- a) Write a note on strcpy () function. 2½
- b) Write a note on period operator. 2½
- c) Explain abs () and sqrt () function. 2½
- d) Write a note on fclose () function. 2½
