

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 wherever necessary.
 3. Avoid vague answer and write the answers specific to questions only.

Either :

1. a) Explain the following 5
 i) `strlen ()` ii) `strcat ()`
 b) Write a program in C to take five numbers from user and store in the array as well as print them. 5

OR

- c) Explain two dimensional array with syntax and example. 5
- d) Write a program in C to perform addition of two 3 x 3 matrix elements and print it. 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) Write a program in C to demonstrate Nested Structure. 5
- d) Explain array of structure with example. 5

Either :

3. a) What is function? Enlist advantages of function. 5
 b) Explain static storage class with example. 5

OR

- c) Demonstrate recursion with example. 5
- d) How structure element is pass to the function? Explain. 5

Either :

4. a) What is call by value? Explain with example. 5
 b) Write a program in C to perform addition of two numbers using pointer. 5

OR

- c) Define File. Explain various operations performed on files. 5
- d) Write a program in C to Insert 10 records of student in “stud.TXT” file. 5

5. Solve all the questions.
 - a) Write a short note on Bounce Checking. 2½
 - b) Enlist the applications of Union. 2½
 - c) Write a note on user defined function. 2½
 - d) Explain malloc and free () function. 2½
