USCST04 - Computer Science Paper-II : Structured Programming With C

P. Pages : 2

Time : Three Hours

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3472

GUG/S/19/11577

Max. Marks : 50

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Notes : 1. All questions are compulsory and carry equal marks.
2. Draw neat and labeled diagram use supporting data wherever necessary.
3. Avoid vague answer and write specific answer related to question.

1. Either

a) Explain in detail declaration of two dimensional arrays. **5**

b) Write a C program to find the sum of two matrices. **5**

OR

c) Write syntax, purpose and example of string library functions **5**
   i) Strcat( )   ii) Stricmp( )

d) Write a C program to search on element in the array by using linear search. **5**

2. Either

a) Explain period operator with suitable example. **5**

b) Write a 'C' program using structure to marks of 3 subjects of a student Calculate total and percentage and display it. (Assume maximum mark in each subject is 150). **5**

OR

c) Explain how to find out the size of structure with example. **5**

d) How to declare and access union elements. Explain in detail with suitable example. **5**

3. Either

a) Discuss the outline of user defined function with suitable example. **5**

b) Write a C program to find the factorial of a number by recursive method. **5**

OR

c) Explain the function with no return value with suitable example. **5**

d) Write a C program to finds whether a number is even or odd using function. **5**

4.   Either

a)   Explain the usage of following functions.   **5**
  i)   malloc( )   ii)   realloc( )

b)   Write a C program to swap two numbers using pointer variables.   **5**

<h3 style="text-align:center">OR</h3>

c)   Give the difference between call by value and call by reference with example.   **5**

d)   Explain the following statements.   **5**
  i)   getchar( )   ii)   putchar( )

5.   All questions are compulsory.

a)   Write a note on Strlen( ).   **2½**

b)   What is the output of the following Program?   **2½**

```
main( )
{
union tag
{
char name [IS];
int age;
}rec;
Strcpy (rec.name, "Ajay");
rec.age = 23;
printf ("Name = % S\n", rec.name);
 }
```

c)   Write a note on auto storage class.   **2½**

d)   Write syntax and example of fopen( )   **2½**

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