

# C.U.SHAH UNIVERSITY

## Winter Examination-2019

Subject Name : Advanced C Programming

Subject Code : 4CS03ACP1

Branch: M.Sc. C.A. & I.T. (Integrated)

Semester :3

Date : 15/10/2019

Time : 02:30 To 05:30

Marks : 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

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- Q-1 Attempt the following questions: (14)**
- a) Full form of UDF ? 1
- a) User Defined function                      b) User Detail Function  
c) User Datagram function                      d) None of these
- b) Which operator connects the structure name to its member name. 1
- a) &    b) .  
c) ->    d) Both A and C
- c) An array elements are always stored in \_\_\_\_\_ memory location. 1
- a) Sequential    b) Random  
c) Sequential and Random                              d) None of these
- d) Structure is \_\_\_\_\_ datatype. 1
- a) User defined    b) Predefined  
c) Both A and B    d) None of these
- e) Which header file is required to include to perform string function. 1
- a) String.h    b) Strings.h  
c) stdio.h    d) None of these
- f) String is terminated with \_\_\_\_\_. 1
- a) 0    b) NULL  
c) \0    d) /0
- g) Pointer is declare using \_\_\_\_ keyword. 1
- a) \$    b) \*  
c) %    d) &
- h) If the two strings are identical than strcmp() function returns. 1
- a) -1    b) 1  
c) 0    d) yes
- i) Which of the following function is more appropriate for reading a multi value string. 1
- a) Scanf()    b) Gets()  
c) Printf()    d) None of these



- j) The variable which is used to store address of other variable? 1  
 a) pointer b) structure  
 c) array d) None of these
- k) Function call itself is known as 1  
 a) Call by value b) Call by reference  
 c) Recursion d) None of these
- l) If the base address is 100 we store 5 integer elements in the array ,what is the address of last location..? 1  
 a) 110 b) 111  
 c) 108 d) 104
- m) Identify the type of udf. 1  
 Void add(int,int)  
 a) No argument No return b) With argument with return  
 c) No argument with return d) With argument no return
- n) Which header file is required to include to perform string function. 1  
 a) Stdio.h b) Conio.h  
 c) Stream.h d) None of these

**Attempt any four questions from Q-2 to Q-8**

- Q-2 Attempt all questions (14)**  
 1 Explain following function strcpy(),strcat(),strlen(),strcmp() with example 7  
 2 What is structure? How to define a structure and access member with example. 7
- Q-3 Attempt all questions (14)**  
 1 Explain function prototype with syntax and example. 5  
 2 Explain call by value and call by reference. 5  
 3 Explain structure as function argument. 4
- Q-4 Attempt all questions (14)**  
 1 What is UDF? Explain types of UDF. 7  
 2 Difference between structure and union. 7
- Q-5 Attempt all questions (14)**  
 1 Explain getch() and putchar() function with example. 5  
 2 What is string? Explain declaration and initialization of string. 5  
 3 Explain pointer to array with example. 4
- Q-6 Attempt all questions (14)**  
 1 What is pointer? How to use pointer with example. 5  
 2 Explain fopen() and fclose() with syntax and example. 5  
 3 Explain file opening mode. 4
- Q-7 Attempt all questions (14)**  
 1 What is union? Explain how to define and access union members with example. 7  
 2 What is recursion ? Explain with example. 7
- Q-8 Attempt all questions (14)**  
 1 Write a program to swap two variable using call by reference. 7  
 2 Write a program to display array element using pointer. 7

