

# C.U.SHAH UNIVERSITY

## Summer Examination-2020

Subject Name : Programming Basics using C Language

Subject Code : 4CS01BCP1

Branch: B.C.A.

Semester : 1

Date:02/03/2020

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.
- 

**Q.-1 Attempt following MCQs.**

**14**

- 1) Which of following is primary data type of C?
  - a) float
  - b) double
  - c) int
  - d) All of the above
- 2) Which is entry controlled loop?
  - a) break
  - b) while
  - c) do... while
  - d) None
- 3) Which is relational operator in C?
  - a) &&
  - b) >=
  - c) ++
  - d) +
- 4) The result of  $42\%2$  is \_\_\_\_\_
  - a) 20
  - b) 2
  - c) 21
  - d) 0
- 5) *case* statement available in \_\_\_\_
  - a) if
  - b) while
  - c) switch
  - d) do...while
- 6) Which statement is used to continue a loop?
  - a) continue
  - b) exit
  - c) return
  - d) None of above
- 7) `int a[10];` declared then, all elements are initialized with \_\_\_\_.
  - a) 1
  - b) 0
  - c) garbage value
  - d) None of above



- 8) `strlen("university")` returns \_\_\_\_\_
- a) 8  
b) UNIVERSITY  
c) 9  
d) 10
- 9) An array is a \_\_\_\_\_ data type.
- a) primary  
b) user define  
c) Derived  
d) all of the above
- 10) Which is correct statement in C?
- a) `int a;`  
b) `int b[10];`  
c) `int c[10][10];`  
d) all of above
- 11) UDF means \_\_\_\_\_
- a) User Define function  
b) User Declared Function  
c) User Design Function  
d) User Develop Function
- 12) Statements, `int i;`  
`for(i=1;i<=5;i++)`  
`{`  
`printf("%d ", i%2);`  
`}`  
prints \_\_\_\_\_
- a) 1 2 3 4 5  
b) 2 4 6 8 10  
c) 1 0 1 0 1  
d) Errors
- 13) `strcmp()` function available in \_\_\_\_\_ header file.
- a) `stdio.h`  
b) `conio.h`  
c) `string.h`  
d) None of above
- 14) UDF can take \_\_\_\_\_ parameters/arguments.
- a) zero  
b) only one  
c) more than one  
d) All of above

**Attempt any FOUR questions from following.**

**Q.-2 Attempt following. 14**

- a) Define data type. Write a note on: Data types in C. 5
- b) Write a note on: History of C. 5
- c) Explain relational operators with example. 4

**Q.-3 Attempt following. 14**

- a) Explain nested for loop with example. 5
- b) Draw a flow chart to find simple interest. 5
- c) Write a note on : Basic structure of C. 4



<b>Q.-4 Attempt following.</b>	<b>14</b>
a) Explain nested if...else statement with suitable example.	5
b) Discuss C Tokens.	5
c) Explain switch-case with example.	4
<b>Q.-5 Attempt following.</b>	<b>14</b>
a) Define array. Explain one dimensional array with initialization process.	5
b) Define loop? Explain do...while loop.	5
c) Explain strlen( ) and strcpy( ) function with example.	4
<b>Q.-6 Attempt following.</b>	<b>14</b>
a) Write a note on : machine, assembly and higher level languages.	5
b) Define UDF? Write a program to find sum of digit using UDF.	5
c) What is recursion? Explain with example.	4
<b>Q.-7 Attempt following.</b>	<b>14</b>
a) Write a program to print following.	7
5	
54	
543	
5432	
54321	
b) Write a program to print factorial of entered number using recursion.	7
<b>Q.-8 Attempt following.</b>	<b>14</b>
a) Write a C program to enter string and print reverse string.	7
b) Write a C Program to enter five nos. in array. Find sum of odd numbers entered in array.	7

