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## C.U.SHAH UNIVERSITY

Summer Examination-2019
Subject Name : Programming Basics using C Language Subject Code : 4CS01BCP1

Branch: B.C.A.
Time: 02:30 To 5:30
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.

1) Which is looping structure in $C$ ?
a) while
b) for
c) do...while
d) all of the above
2) Which is entry controlled loop?
a) break
b) while
c) do... while
d) None
3) Which is arithmetic operator in C ?
a) +
b) $\quad>=$
c) $>$
d) >>
4) The result of $95 \% 5$ is $\qquad$
a) 20
b) 15
c) $\quad 19$
d) 0
5) printf ("\%c",101); prints $\qquad$
a) e
b) $\quad \mathrm{b}$
c) c
d) d
6) if $\mathrm{a}=15, \mathrm{~b}=20$ then statement $\operatorname{printf(}\left({ }^{\circ} \% \mathrm{~d} ", \mathrm{a}+++\mathrm{b}++\right)$; prints $\qquad$
a) 35
b) 36
c) 37
d) 38
7) getch( ) function available in $\qquad$ file.
a) stdio.h
b) conio.h
c) screen.h
d) string.h
8) strcmp("ab", "AB"); returns $\qquad$
a) 0
b) 1
c) 32
d) $\quad-32$

9) Which is a keyword in C?
a) while
b) if
c) long
d) all of the above
10) String should be declared using $\qquad$ statement.
a) char [10] a;
b) char a[10];
c) Both A and B
d) None
11) UDF means $\qquad$
a) User Define function
b) User Declared Function
c) User Design Function
d) User Develop Function
12) printf ("\%d", strlen("ABC")); prints $\qquad$
a) 0
b) 2
c) 3
d) 1
13) $a=15, b=20, c=25$ integer value then the statement, if ( $a>b| | b>c$ ) returns $\qquad$
a) true
b) false
c) error
d) None
14) $\operatorname{pow}(3,4)$ returns $\qquad$
a) 27
b) 12
c) 81
d) 64

## Attempt any FOUR questions from following.

Q.-2 Attempt following. 14
a) Write a note on: primary data type of C. 5
b) Explain basic structure of C program. 5
c) What is loop? Describe while loop with example. 4
Q. $\mathbf{3}$ Attempt following. 14
a) Explain for loop with suitable example. 5
b) Why we use break? Explain with example. 5
c) Draw a flow chart to find simple interest. 4
Q.-4 Attempt following. 14
a) Define array. Explain 2D array. 5
b) How to declare string? Explain initialization of string in C 5
c) Explain switch-case with example. 4
Q. 5 Attempt following. 14
a) Explain nested if else with suitable example. 5
b) Describe relational and arithmetic operator with suitable example. 5

c) Write a note on: C tokens.
Q.-6 Attempt following. ..... 14
a) Write a note on : machine, assembly and higher level languages. ..... 5
b) Explain different types of UDF. ..... 5
c) What is recursion? Explain with example. ..... 4
Q.-7 Attempt following. ..... 14
a) Write a program to print following series using for loop. ..... 7

| 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 256 | 512 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

b) Write a program to find entered no. is even or odd. ..... 7
Q.-8 Attempt following. ..... 14
a) Write a C program to print following. ..... 7
554

$$
543
$$

$$
5432
$$

$$
54321
$$

b) Enter five nos. in array and find sum of entered nos.


