

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Winter Examination-2020

Subject Name : Programming basics using C Language

Subject Code : 4CS01IPC2

Branch: B.Sc.I.T.

Semester : 1

Date :15/03/2021

Time : 03:00 To 06:00

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 is entry controlled loop?
a) if
b) while
c) do...while
d) All of the above
- 2) Which is logical operators in C?
a) &&
b) ||
c) !
d) All of the above
- 3) Which statement is valid in C?
a) #define pi=3.14
b) #define pi 3.14
c) #define float pi=3.14
d) None of these
- 4) The result of $148\%5$ is _____
a) 2
b) 3
c) 8
d) 0
- 5) `printf ("%c", 65);` prints _____
a) A
b) B
c) C
d) D
- 6) if $a=15$, $b=20$ then statement, $x = a++ + b++;$ value of x is _____
a) 35
b) 36
c) 37
d) 16
- 7) `int x = 0, i;`
`for(i=1; i < 5; i++)`



```
{ x = x + i ; }  
printf ("%d", x);
```

What is output of above code for value x ?

- a) 0
 - b) 15
 - c) 10
 - d) 5
- 8) To repeat some statement, we are using_____ .
- a) condition
 - b) data types
 - c) switch
 - d) Looping
- 9) The keyword *break* cannot be simply used within _____
- a) if
 - b) for
 - c) do while
 - d) while
- 10) Which of following is not an arithmetic operation?
- a) a *= 10;
 - b) a /= 10;
 - c) a != 10;
 - d) a %= 10;
- 11) Which operator is known as ternary operator?
- a) !?
 - b) ? =
 - c) = ?
 - d) ? :
- 12) C variable cannot start with _____
- a) A number
 - b) A special symbol or underscore
 - c) Both A and B
 - d) An Alphabet
- 13) Which of following cannot be checked in switch-case statement?
- a) char
 - b) int
 - c) float
 - d) None
- 14) Which is not relational operator in C?
- a) >=
 - b) ==
 - c) <
 - d) % =

Attempt any FOUR questions from Q-2 to Q-8.

Q.-2 Attempt following. 14

- a) Write a note on: History of C 5
- b) Define flow chart. Draw a flow chart to find maximum from two numbers. 5
- c) Explain nested if-else statement with syntax and example. 4

Q.-3 Attempt following. 14

- a) Define variable. Explain primary data types of C Language. 5



b) Explain nested for loop with example.	5
c) Write a note on: Basic structure of C.	4
Q.-4 Attempt following.	14
a) Explain switch-case statement with syntax and example.	5
b) Why we use <i>break</i> statement? Explain break with example.	5
c) Define array. Explain 1D array initialization with example.	4
Q.-5 Attempt following.	14
a) Explain <code>strlen()</code> and <code>strcpy()</code> with syntax and example.	5
b) Explain <code>pow()</code> and <code>abs()</code> function with syntax and example.	5
c) Explain <code>isalpha()</code> and <code>sqrt()</code> function with syntax and example.	4
Q.-6 Attempt following.	14
a) Write a note on : machine, assembly and higher level languages.	5
b) Define UDF? Write a program to print “hello” message using UDF.	5
c) Define storage class. Write a note on storage classes.	4
Q.-7 Attempt following.	14
a) Write a program to print following.	5
5	
54	
543	
5432	
54321	
b) Write a C program to print factorial of entered no.	5
c) Write a C program to find sum of entered number in array of size 5.	4
Q.-8 Attempt following.	14
a) Write a C program to print following.	5
12345	
2345	
345	
45	
5	



- b) Write a C program to enter number and find sum of entered number digits. 5
- c) Write a C program to find maximum from entered three numbers. 4

