Seat	
No.	

Kamala College, Kolhapur

(Autonomous)

B.C.A. (Part-I)(Semester-I)(CBCS)Examination Oct.,2022

CC : Introduction to Programming using C

Subject Code: 302

Day and Date: Wednesday,04/01/2023   **Total Marks: 80**

Time: 8.00 a.m. to 11.00 a.m.

Instructions:
1. Que. 1 and Que. 8 are compulsory
2. Attempt any three questions from Que. No. 2 to Que. No.7
3. Figures to the right indicate total marks.

Q 1) a) Multiple Choice Questions.   **[12]**

1) A recursive function in C ___.
   A. Call itself again and again
   B. Loop over a parameter
   C. Return multiple values
   D. None of these

2) What is a function in C?
   A. User defined data type
   B. Block of code which can be reused
   C. Declaration syntax
   D. None of these

3) The size of a union is ___.
   A. Sum of sizes of all members
   B. Predefined by the compiler
   C. Equal to size of largest data type
   D. None of these

4) Array elements are always stored in ___ memory locations.
   A. Random
   B. Sequential

C. Both A and B

D. None of the above

5) Which function is used to concatenate two strings in C?

   A. concat()

   B. cat()

   C. stringcat()

   D. strcat()

6) Loops in C programming are used to ___.

   A. Execute a statement based on a condition

   B. Execute a block of code repeatedly

   C. Create a variable

   D. None of these

7) A C-style comment, simply surround the text with ___.

   A. /* and */

   B. // and //

   C. //

   D. /** and **/

8) C language is a ___.

   A. Procedural oriented programming language

   B. General purpose programming language

   C. Structured programming

   D. All of the above

9) Which is the correct format specifier for float type value in C?

   A. %d

   B. %f

   C. %lf

   D. %LF

10) Which of the following declaration is incorrect in C language?

   a. scanf("%d%d", a, b);

   b. scanf("%d%d", a b);

   c. scanf("First %d Second %d", &a, &b);

   d. scanf(" %d%d", &x,&y);

11) In C, parameters are always

   a. call by value

   b. call by reference

c. Non-pointer variables are passed by value and pointers are passed by reference

d. Pass by result

12) Which symbol is used to declare a pointer?
   a. *
   b. #
   c. &
   d. &&

Q2) a) Explain call by value & call by reference in brief. [8]
   b) What is flowchart? Flowchart to accept a number and given no
      is positive or negative. [8]

Q 3) a) Explain variables? Scope of variables in C language [8]
   b) Explain Iteration Statements in C language.(Looping Statements) [8]

Q 4) What is array ? Explain in brief One dimensional Array [16]
      with Example ?

Q 5) a) Explain in brief Union with Example ? Difference Between [8]
         Structure and Union.
   b) Write a C program to accept a number and check given [8]
      number is Prime or Not ?

Q 6) a) Explain in brief if else Statement with Example ? [8]
   b) Write a C program to add two matrices use two
      dimentional array ? [8]

Q 7) a) Explain Pointer ? Explain in brief pointer and two [8]
         dimentional array?
   b) Explain Function in C programming with Example? [8]
      Write a function which calculate square of given number (with
      arguments no return value)?

Q 8) Write short notes on. (Any Four out of Six) [20]
   1) increment Operators in C
   2) datatypes in C
   3) malloc( ) & calloc( )
   4) switch case statement
   5) file functions fopen( ) & fclose( )
   6) History of c