Seat No. : _____

MB-114

March-2022

B.C.A., Sem.-I

CC-102 : Introduction of Programming Language using C
(New)

Time : 2 Hours]   **[Max. Marks : 50**

Instructions : (1) **All** questions in **Section – I** carry equal marks.

                   (2) Attempt any **TWO** questions in **Section – I**.

                   (3) Question – **5** in **Section – II** is **COMPULSORY**.

Section – I

1. (A) Answer the following :   **10**

         (I) Explain machine language and assembly language.   **5**

         (II) Write an algorithm and draw flowchart to find sum of first five natural numbers.   **5**

   (B) Answer the following :   **10**

         (I) Explain structure of C Program.   **5**

         (II) List basic data types of C with their size in bytes. Explain conditional operators.   **5**

2. (A) Explain nested-if with example. Explain printf(), scanf() function with example.   **10**

   (B) Explain switch case with example. Give difference between nested-if and switch-case.   **10**

3. (A) Answer the following :   **10**

         (I) Explain for loop with example.   **5**

         (II) Give difference between while and do-while loops.   **5**

   (B) Answer the following :   **10**

         (I) What are arrays ? How elements of array are stored ?   **5**

         (II) Explain two-dimensional array with example.   **5**

4. (A) List different types of user define function. Explain any one in detail with example.   **10**

   (B) Explain strcmp(), strcpy(), strncpy(), strrev() and strlen() functions with example.   **10**

Section – II

5. MCQs : (Any **5**)   **10**

   (1) A character array always ends with _____.

     (a) NULL (\0) character   (b) Question mark (?)

     (c) Full stop(.)   (d) All of these

   (2) The result of printf("%d", 4==6 ? 21 :15); is _____.

     (a) 14   (b) 21

     (c) 15   (d) None of these

   (3) C Program structure consists _____.

     (a) Header file Section   (b) Main function Section

     (c) Global Declaration Section (d) All of the above

   (4) _____ function reads one character at a time till the user press enter key.

     (a) getchar()   (b) puts()

     (c) accept()   (d) floor()

   (5) What will be the value of x after executing this statement k=6; x= k++ – k++;

     (a) x=0   (b) x= –1

     (c) x=6   (d) x=8

   (6) Result of expression (23+2) % (int)5.5 is

     (a) 0   (b) 1

     (c) 5   d)   –1

   (7) The for(;;) loop with no arguments can be executed.

     (a) True   (b) False

   (8) The _____ statement is used to separate two case statement.

     (a) continue   (b) goto

     (c) break   (d) exit

   (9) When a function calls itself repeatedly is called _____

     (a) recursion   (b) in-built function

     (c) user-defined   (d) None of these

  (10) Array index starts from _____.

     (a) 0   (b)   –1

     (c) 1   (d) all of these

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