

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

5. MCQs : (Any 5)

- (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