BBB-003-003108   Seat No. _____

B. C. A. (Sem. I) (CBCS) Examination

July – 2021

CS - 02 : Problem Solving Methodologis & Programming In C

Faculty Code : 003

Subject Code : 003108

Time : $2\frac{1}{2}$ Hours]   [Total Marks : **70**

1   Attempt following MCQ Questions :   **20**

    (1)   What is the range of Character data type?

    (2)   Write 2 built-in functions of conio.h.

    (3)   What is Strings ?

    (4)   What is variable ?

    (5)   What is a branching statement?

    (6)   Which looping statement is known as "Entry-Controlled Loop'?

    (7)   Uses of Continue statement.

    (8)   Syntax of while loop.

    (9)   Syntax of Do ... while loop.

    (10)   What is Nesting of loops ?

    (11)   Write symbol of terminal operator.

    (12)   List Jumping statement.

    (13)   _____ keyword is used to create union.

    (14)   _____is starting index of array.

    (15)   Which operator is used to access the member of union?

    (16)   What is structure?

    (17)   List type of Array.

(18) _____ data type as use to define string array.

(19) Array is not user defined data type (True/False).

(20) Which operator is used to define array?

2 (A) Attempt the following : (Any **Three**)   6

    (1) Explain C character set.

    (2) Explain char data type in C Program.

    (3) What is an Array?

    (4) Explain types of comments in C.

    (5) Briefly explain clrscr ( ) with an example.

    (6) Explain goto...label statements.

   (B) Attempt the following : (Any **Three**)   9

    (1) Explain "do-while" loop with an example.

    (2) Explain If.. else.

    (3) Explain break and continue statement with example.

    (4) Explain ternary operator with example.

    (5) Explain while loop.

    (6) Explain union.

   (C) Attempt the following : (Any **Two**)   10

    (1) What is an operator? Explain any two with example.

    (2) Input 5 numbers in array and print max numbers.

    (3) Explain "for" loop with example.

    (4) Accept 10 numbers in an array and count the even value of them.

    (5) What is UDF? Explain any two types of UDF with an example.

3 (A) Attempt the following : (Any **Three**)   **6**

    (1) Explain call by reference.

    (2) Explain isspace and isupper with an example.

    (3) Explain about struct with its syntax.

    (4) Explain differences between Array and Structure.

    (5) Explain pre-processors.

    (6) Explain printf() and scanf()

(B) Attempt the following : (Any **Three**)   **9**

    (1) Explain switch ,..case in brief with an example.

    (2) Explain array within union.

    (3) Explain Storage classes in detail.

    (4) Difference between Structure & Union

    (5) Explain String arrays.

    (6) What is Variable? Explain its rules in detail.

(C) Attempt the following (Any **Two**)   **10**

    (1) Write a c program to create a structure to input Roll No and Name of 3 students.

    (2) Write a C program to print Fibonacci series.

    (3) Explain Data types in C - language.

    (4) Explain Basic structure of C - Program.

    (5) Write a C program to print following output.
```
*
* *
* * *
* * * *
* * * * *
```