Or

(a) Write a C program to access two dimensional array any pointer.

(b) What is Pointer ? How is it different from ordinary variable ? How is it initialized ? Explain by writing suitable 'C' program.

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G-1/609/22   Roll No. ....

I Semester Examination, January 2022
DCA
Paper III
(Programming in 'C' Language)

Time : 3 Hours]   [Max. Marks : 100

Note : *Attempt two parts from each queston. All questions carry equal marks.*

Unit-I

1. (a) What is header file ? How is it integrated in program ? Write name of any *four* header file used in 'C' language.

    (b) Write brief notes on the following :

    (i) Printf

    (ii) Scanf.

    Or

    (a) Explain structure of 'C' program by writing a sample 'C' program. Also write some roles to construct 'C' statement.

    (b) What is data type ? Explain its types.

Unit-II

2. (a) What is operator precedence in 'C' ? Explain with example.

(b) Explain different arithmetic operators by writing suitable 'C' program.

Or

(a) Write a brief note on relation and logical operator.

(b) Explain increment and decrement operator in detail. Explan your concept by suitable C program.

Unit-III

3. (a) What is Loop ? Explain different types of loops with suitable example.

(b) Write a brief note on 'break' and 'continue' statement.

Or

(a) Explain switch statement with suitable example.

(b) What is String ? Explain any *four* string handling function with example.

Unit-IV

4. (a) What is Function ? Explain function calling technique with example.

(b) Write difference between structure and Union.

Or

(a) What is Recurtion ? Write a 'C' program to calculate factorial of any given number using recurtion.

(b) Write a C program to explain the following concept :

(i) Array within structure.

(ii) Array of structure.

Unit-V

5. (a) Write a brief note on Pointer Arithmetic.

(b) Write brief notes on the following :

(i) Void pointer,

(ii) Null pointer,

(iii) Pointer to pointer.