

Roll No.

E-1884

**Diploma in Computer Application
(First Semester)
EXAMINATION, Dec.-Jan., 2020-21
(New Course)**

**PROGRAMMING IN 'C' LANGUAGE
(DCA-103)**

Time : Three Hours]

[Maximum Marks : 100

[Minimum Pass Marks : 33

Note : Attempt any *two* questions from each Unit. All questions carry equal marks.

Unit—I

1. What are various Input/Output functions used in C language ? Explain output formatting.
2. Explain the structure of C program with the help of proper example code blocks.
3. Write a program to find simple interest on basis of input given by user.

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Unit—II

4. What do you mean by operator precedence and associativity ?
Give proper examples.
5. Give the examples to explain what is the use of relational and logical operators.
6. Write a program to find sum of first and last digit of a four digit number given as input by user.

Unit—III

7. Write a program to check a number entered by user is Armstrong number or not.
8. What are Arrays ? Explain its types, various declaration and memory representation.
9. Write difference between the following :
 - (i) if and switch
 - (ii) break and continue

Unit—IV

10. Write a program to find factorial of a number using function blocks.
11. What are structures ? How do we declare structure ? Explain use and memory representation of structure.
12. What do you mean by Recursion ? Explain the basic conditions that must be satisfied for a proper recursion.

Unit—V

13. Explain pointer arithmetic.

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14. Write a program to show how we can pass array into functions with the help of pointers.
15. Explain any *two* of the following :
 - (i) Pointer to pointer
 - (ii) Array of pointer and pointer to array
 - (iii) Referencing and void pointers