E–1895

P. G. Diploma in Computer Application

(First Semester)

EXAMINATION, Dec.-Jan., 2020-21

(Old Course)

PROGRAMMING IN 'C'

(PGDCA—102)

Time : Three Hours]   [*Maximum Marks : 100*

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

Unit—I

1. (a)   Define variable. How you read and display variables ?

   (b)   Discuss the different types of operators in 'C'.

   (c)   Write a program in C to calculate simple interest.

Unit—II

2. (a)   Explain the Switch statement with syntax and example.

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(b) Write a program to input a number and find the factorial using for loop.

(c) Write a program in C to input a five digits number and print it in reverse order. (Suppose you inputs 12345 then print it in 54321).

Unit—III

3. (a) Explain the concept of function in 'C' language with example.

(b) Describe the recursive function with example.

(c) Write a program in 'C' to demonstrate array of string.

Unit—IV

4. (a) Define pointer. How you use pointer with example.

(b) Write short notes on the following :

(i) Void pointer

(ii) Pointer to pointer

(c) Write a C program to demonstrate array of pointer.

Unit—V

5. (a) Discuss the array of structure with example.

(b) Explain the structure within structure with example.

(c) Define union. Write the scope of union with example.

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