G - 1809

P.G. DIPLOMA IN COMPUTER APPLICATION

(First Semester)

Examination, Dec.- Jan., 2022-23

(New Course)

PROGRAMMING IN C

(PGDCA-103)

Time : Three Hours]   *[Maximum Marks : 80*

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

(Unit-I)

1. (a) Define variable? How do you read and display variables? Explain with example.

   (b) Describe format specifiers for scanf with example.

   (c) Write a program in C to calculate the area of a rectangle.

(Unit-II)

2. (a) Write a program in C to input three numbers and find the big one.

   (b) Write a program in C to demonstrate switch statement.

   (c) Define recursion? Write a program in C to find the factorial of any inputted number using recursion.

(Unit-III)

3. (a) Write a program in C to sort the 10 names in ascending order.

   (b) Write a C program to demonstrate pointer to pointer.

   (c) Write a C program to demonstrate pointer and function.

(Unit-IV)

4. (a) Explain structure within structure with suitable example.

   (b) Write a C program to demonstrate array within structure.

   (c) Write the differences between structure and union.

G - 1809

(Unit-V)

5. (a) What is dynamic memory allocation? Explain the library functions for dynamic memory allocation.

   (b) Describe the buffered and unbuffered file with example.

   (c) How do you handle error in a file? Explain with example.

———