

# PC-7797/N

**N-21/2110**

**PROBLEM SOLVING USING-C**

Paper – PGDCA-103

(Semester-I)

Time : Three Hours]

[Maximum Marks : 70

**Note :** Attempt *two* questions each from Section A and B.  
Section C will be compulsory.

## **SECTION – A**

- I. Explain the phases of programming process. (10)
  
- II. (a) What is identifiers? Write the rules for naming identifiers names. (5)  
(b) What are different types of literals? (5)
  
- III. What are different types of control statements in C language? Explain 'for' loop with example. (10)
  
- IV. What are different types of functions used in C language? (10)

## **SECTION – B**

- V. How array is passed as argument to function? Explain with example. (10)
- VI. Write a program to implement bubble sort. (10)
- VII. Explain the use of array of structure with example. (10)
- VIII. Explain the concept of sequential and random access files. (10)

## **SECTION – C**

- IX. (a) Write note on compiler and assembler.
- (b) What are keywords and tokens?
- (c) What is the use of type conversion?
- (d) Write different types of parameters.
- (e) Write the life and scope of local variables.
- (f) What are two-dimensional arrays?
- (g) Write the uses of pointer type variables.
- (h) What is the use of union data type?
- (i) What is self-referential structure?
- (j) Write difference between text and binary file. (10×30=30)