

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE, APRIL-2021**

PROGRAMMING IN C

[Maximum marks: 75]

(Time: 2.15 Hours)

PART – A

I (Answer any *three* questions in one or two sentences. Each question carries 2 marks)

1. Define identifiers.
2. Write the syntax of do while loop.
3. Define pointers.
4. Write the syntax for calling a function.
5. Define functions.

(3 x 2 = 6)

PART – B

II (Answer any *four* of the following questions. Each question carries 6 marks)

1. Explain the structure of a C program with example.
2. Write a C program to find the sum of two numbers entered by the user and display the result.
3. Distinguish between entry controlled and exit controlled loops with an example.
4. Write a C program to search an element in a one dimensional array.
5. Write an example C program using pointers.
6. Explain any five string handling functions in C with examples.
7. Write a C program to add two numbers using user defined function.

(4 x 6=24)

PART – C

(Answer *any of the three units* from the following. Each full question carries 15 marks)

UNIT –I

- III. (a) Explain data types in C with examples (8)
- (b) Write a C program to display the month (January to December) corresponding to the number (1-12) entered by the user. (7)

OR

- IV.(a) Explain the selection structures-two way and multiway with suitable examples. (8)

- (b) Write a C program to find the sum of numbers entered by the user until a zero is encountered (7)

UNIT-II

- V. (a) With an example program explain how two dimensional array can be created (8)
(b) Write a C program to inset an element into a one dimensional array (7)

OR

- VI. (a) Explain various looping structures with suitable examples. (8)
(b) Write a C program to delete an element from a one dimensional array (7)

UNIT-III

- VII.(a) With suitable example explain declaration, reading and displaying a string. (8)
(b) Write a C program to concatenate two strings and find its length. (7)

OR

- VIII.(a) Explain pointer arithmetic with suitable example. (8)
(b) Write a C program to check whether the names entered by two users are same or not. (7)

UNIT-IV

- IX. (a) Explain function declaration and function call using suitable examples (8)
(b) Write a C program to access the elements of an array using pointers (7)

OR

- X. (a) Explain recursion with an example (8)
(b) Write a program to pass an array to a function using call by value method (7)
