DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE –NOVEMBER -2021.

PROGRAMMING IN C

(Maximum Marks : 75)   [Time : 2.15 hours]

PART–A

Marks

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

1. Write the syntax of conditional operator with example

2. What is the output of following code

```
for (i=0;i<l0;i++)
        printf("%d",i++);
```

3. Write the syntax of strcmp function and its return value

4. Write the syntax of declearing string constant " Hello" using pointer variable

5. Differentiate between exit and return

(3x2=6)

PART - B

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

1. Explain about the structure of c program with example

2. Explain about switch case with example

3. Differentiate between Entry Controlled and Exit controlled loop

4. Write a program to find the length of a string without using strlen function

5. Explain the syntax of any four string function with example.

6. Briefly explain about the structure of function definition

7. Different between actual parameters and formal parameters

(4x6 =24)

PART - C

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

UNIT I

III   (a) Write a c program to find largest in 3 integers   (9)

     (b) Explain the syntax of nested if with example   (6)

OR

IV   (a) Explain about operators in c program   (9)

     (b) Write a program to calculate volume of a cylinder   (6)

UNIT- II

V   (a) Write a program to list fibonacci series of limit n   (8)

     (b) Explain about two dimentional array and write an example of two dimensional array decleration   (7)

OR

VI   (a) Explain about different looping method in c program with example   (9)

     (b) Write a program to calculate sum of elements in an array   (6)

UNIT- III

VII   (a) Write a program to concatinate two string with out using strcat function   (9)

     (b) Briefly explain about pointers with example   (6)

OR

VIII   (a) Explain about c strings and how it can be initalized   (6)

     (b) Write a C program to find smallest element in an array using pointer   (9)

UNIT-IV

IX   (a) Explain about catagories of function based on arguments and return value   (8)

     (b) Write a program to find factorial of a given no using recursion   (7)

OR

X   (a) Explain about call by value and call by reference with example   (8)

     (b) Write a C program to add two integers using functions   (7)

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