TED (15/19) – 4044 (Revision - 2015/19)

N22 - 02202

Reg.No..... Signature.....

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/ **COMMERCIAL PRACTICE – NOVEMBER – 2022**

PROGRAMMING IN C

(Maximum Marks : 100)

PART - A

(Maximum Marks : 10)

Marks

(Time : 3 hours)

I. Answer all questions in one or two sentences. Each question carries 2 marks.

1. Write any two output functions in C.

- 2. Which data type is used to store the name of a person?
- 3. What is the use of break statement?
- 4. Write any two string functions in C.
- 5. List any two types of parameter passing methods in C functions. (5x2=10)

PART-B

(Maximum Marks : 30)

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

- 1. Explain the structure of a C Program.
- 2. Distinguish between Exit Controlled Loop & Entry Controlled Loop.
- 3. Write a C program to read a temperature in Fahrenheit and convert it into Celsius. The output should be in a neat format (Hint. C=5/9* (F-32).
- 4. Write a C program to input a number and then to find the reverse of that number. (Hint : input 128, output 821).
- 5. Write a C program to input two strings and then join these strings using a built in function.
- 6. Explain the use of user defined functions and how to declare a user defined function.
- 7. Differentiate call by value and call by reference.

PART - C

(Maximum Marks : 60) (Answer one full question from each unit. Each full question carries 15 marks)

UNIT – I

III. (a) Write short notes on arithmetic and relational operators in C with suitable examples. (8)

(5x6=30)

(b) Write a C program to find the volume of a sphere (Hint : Volume of a sphere is 4/3 x 3.14 x r*r*r)	(7)
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IV. (a) Explain data types in C	(8)
(b) Write a C program to find the largest among three numbers.	(7)
UNIT – II	
V. (a) Write Short notes on any two looping structures in C with examples.	. (8)
(b) Write a C Program to print first 20 numbers in fibonacci series.	(7)
OR	
VI. (a) Explain arrays in C with suitable examples.	(8)
(b) Write a C program to store N numbers in to an array and sort it in th ascending order.	e (7)
UNIT –III	× /
 VII. (a) Discuss a) Use of pointers. b) Initialize and access pointers. (b) Write a C program to find the sum, product and average of three num using pointers. 	
using pointers OR	(7)
VIII. (a) Write short notes on string functions in C with example.	(8)
(b) Write a C program to input a string then check whether it is palindron	me or not. (7)
UNIT – IV	
IX. (a) Explain how to pass array as parameter to a user defined function with	h suitable example.(8)
(b) Write a C program using function to input a number and then find the Numbers.	e sum of digits in
(Hint : input 128 : Output – 11)	(7)
OR	
X. (a) Write short notes on recursive functions and its working.	(8)
(b) Write a C program to implement a recursive function to find the factor	orial of

a number.

(7)