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

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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ **MANAGEMENT/COMMERCIAL PRACTICE, APRIL - 2025**

PROGRAMMING IN C

[Maximum Marks: **100**]

[Time: **3** Hours]

PART-A [Maximum Marks: **10**]

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

- 1. Define constants in C language.
- 2. Give the syntax of switch selection structure in C language.
- 3. Write the example for nested looping by using for loop.
- 4. How to read strings from a variable in C language.
- 5. List different methods of passing arguments to a function. $(5 \times 2 = 10)$

PART-B

[Maximum Marks: 30]

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

- 1. Explain any three data types in C language.
- 2. Explain any input and output function in C language.
- 3. Compare entry controlled and exit controlled loops in C language.
- 4. Write a C program to read M x N matrix.
- 5. Define String. Explain declaration of string in C language.
- 6. Write a C program to find largest of two numbers using user defined function..
- 7. Explain recursive function in C language with any example. $(5 \times 6 = 30)$

PART-C

[Maximum Marks: 60]

(Answer *one* full question from each Unit. Each full question carries 15 marks)

UNIT – I

III.	a. Explain the structure of C programming with an example.	(8)
	b. Write a C program to find sum of three numbers, by reading data from keyboard.	(7)

OR

IV. a. Explain different types of operators in C language. (8) (7)

b. Write a program using if-else statement in C.

	UNIT – II	
V.	a. Explain the counter-controlled loop in C with an example.	(8)
	b. Write a C program to find largest element in an array.	(7)
	OR	
VI.	a. Write a C program to find average of N numbers in an array.	(8)
	b. Explain the one-dimensional array declaration and initialization.	(7)
	UNIT- III	
VII.	a. Explain any four string functions in C language.	(8)
	b. Explain the use of pointer in C programming language.	(7)
	OR	
VIII.	a. Write a C program to check the given string is palindrome or not.	(8)
	b. Explain any two pointer arithmetic in C language.	(7)
	UNIT - IV	
IX.	a. Write a C program to find the sum of three numbers using user defined function.	(8)
	b. Explain the structure of user defined function.	(7)
	OR	
X.	a. Write a C program to find the smallest elements in an array using a user defined fu	nction.
	Use pointer to pass the array into the function.	(8)
	b. Explain actual and formal parameters in C language.	(7)
