TED (15) – 2131

(REVISION — 2015)

Reg. No. ....

Signature ....

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2019

PROGRAMMING IN C

[*Time* : 3 hours

(Maximum marks : 100)

PART — A

(Maximum marks : 10)

Marks

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

1. Define keywords in C.

2. Name four storage classes in C.

3. What is meant by recursion ?

4. What is meant by array in C ?

5. Name any two standard string handling library functions.   (5 × 2 = 10)

PART — B

(Maximum marks : 30)

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

1. Write a C program to find the largest among three numbers.

2. Distinguish between while and do-while with example.

3. Explain register and external storage class in C.

4. Compare call by value and call by reference parameter passing mechanism.

5. Write a C program to find the sum of elements in an array.

6. Write a C program to add two metrices.

7. Explain any three standard library string functions with examples.   (5 × 6 = 30)

[24]   [P.T.O.

Marks

PART — C

(Maximum marks : 60)

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

Unit — I

III	(a)	Explain hierarchy of operators.	8
	(b)	Write a C program to find the sum of digits of a number.	7

Or

IV	(a)	Explain break and continue statements with example.	8
	(b)	Explain the switch and case statements with example.	7

Unit — II

V	(a)	List the uses of functions in C.	8
	(b)	Distinguish between macro and function.	7

Or

VI	(a)	Explain macros with arguments with example.	8
	(b)	Explain function definition and prototype with example.	7

Unit — III

VII	(a)	Write a program that passes an entire array to a function.	8
	(b)	Explain about pointers and arrays with example.	7

Or

VIII	(a)	Write a C program to search an element in an array.	8
	(b)	Explain array of pointers with example.	7

Unit — IV

IX	(a)	Write a user defined function to compare two strings without using standard library function.	8
	(b)	Demonstrate declaration and accessing of a structure variable with the help of an example.	7

Or

X	(a)	Compare array and structure with examples.	8
	(b)	Write a C program to check whether a string is palindrome or note.	7