

TED (15/19) -2131 (Revision- 2015/19)

A21-03294

Reg.No	
Signature.	

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/ COMMERCIAL PRACTICE – APRIL -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. What are keywords?
 - 2. Write the syntax of Switch statement.
 - 3. Define a function.
 - 4. Write a statement to declare an array to store 10 integer numbers.
 - 5. Define a string. (3x2=6)

PART - B

- II Answer any four of the following questions. Each question carries 6 marks.
 - 1. Explain the syntax of for loop with example.
 - 2. Explain the features of C Preprocessor.
 - 3. Describe recursion with example.
 - 4. Write a C program to find the sum of N numbers in an array.
 - 5. Describe pointer to an array with an example.
 - 6. Describe how to initialize a string and write any two methods to read a string...
 - 7. Describe syntax with example of a structure and also describe how to refer its members in a program.



PART - C

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

Ш	(a)	UNIT I Explain the different types of operators in C with suitable Examples.	(9)
	(b)	Distinguish between Break and Continue statements in C.	(6)
		OR	
IV	(a)	Explain various forms of if statement with examples.	(9)
	(b)	Write a C program to find the sum of odd numbers from 1 to N.	(6)
		UNIT- II	
V	(a)	Differentiate between macro and a function.	(8)
	(b)	Explain about the Storage classes in C.	(7)
		OR	
VI	(a)	Distinguish between call by value and call by reference.	(7)
	(b)	Describe the different data types in C.	(8)
		UNIT- III	
VII	(a)	Explain how an integer array is declared and initialized.	(6)
	(b)	Write a C program to add two MXN matrices.	(9)
		OR	
VII	I (a)	Write a function to find the average of an array of N elements. Also	
		Write the main program to call the function.	(7)
	(b)) Write a C program to read members into an array, assign the array to	
		a pointer and print the largest element in the array using pointer.	(9)
		UNIT – IV	
IX	Exp	plain the string functions with suitable examples strlen(), strcpy (),	
	str	cat(),stremp().	(15)
		OR	
X	(a)	Write a program using an array of structures to read Reg.number, Name,	
		Mark1 Mark2 and Mark3 of M students in a class and print the	
		Reg.number,Name,Mark1,Mark2,Mark3 and total mark of each student.	(10)
	(b)	Explain how to declare array of structures.	(5)