

TED (15) - 2131

(REVISION — 2015)

Reg. No.	
Signature	

SECOND SEMESTER DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY — OCTOBER, 2016

PROGRAMMING IN C

(Common to CT, CM and IF)

[Time: 3 hours

(Maximum marks: 100)

PART - A

(Maximum marks: 10)

Marks

- I Answer the following questions in one or two sentences. Each question carries 2 marks.
 - 1. List any two keywords in C.
 - 2. Give the syntax of simple if statement.
 - 3. Define function.
 - 4. Write the syntax of declaring one dimensional integer array.
 - 5. Give one difference between array and structure. $(5 \times 2 = 10)$

PART-B

(Maximum marks: 30)

- II Answer any five questions from the following. Each question carries 6 marks.
 - Describe control instructions in C.
 - 2. Explain hierarchy of operators.
 - 3. Compare call by value and call by reference parameter passing mechanism.
 - Explain automatic and static storage classes in C. 4.
 - 5. Write a C program to find the largest element from an array.
 - Write a C program to find the transpose of a matrix.
 - 7. Give the declaration of structure named student with the following elements. student name roll number integer array of 5 marks.

 $(5 \times 6 = 30)$



Marks

PART—C

(Maximum marks: 60)

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

Unit – I

Ш	(a)	Explain the switch and case statements with example.	9
		Write a C program to print the multiplication table of a number.	6
		OR	
IV	(a)	Distinguish between while and do while with example.	9
		Compare break and continue statements in C.	6
		Unit – II	
V	(a)	Explain recursion. Write a program to find the factorial of a number using recursion.	9
	(b)	List the primary data type and give example for each.	6
		OR	
VI	(a)	Write the features of C preprocessor.	9
	(b)	List the uses of functions in C.	6
500		Unit – III	,
VII	(a)	Write a C program to add two matrices.	9
	-	Write a program that passes an entire array to a function.	- 6
		OR	
VIII	(a)	Explain array of pointers.	9
	(b)	Describe the initialisation of two dimensional array.	6
		Unit – IV	
IX	(a)	Explain the string functions strlen(),strcpy(),strcat() and strcmp() with examples.	10
		Describe the use of structures.	- 5
		OR University to implemented in a program?	10
X	(a)	요하다 가게 되었다면 하면 어떻게 되었다면 하는데	5
	(h)	Explain about array of pointers to strings.	-