TED (15/19) - 4044
(REVISION-2015/19)

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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE, NOVEMBER - 2024

PROGRAMMING IN C

(Maximum Marks: 100) (Time: 3 Hours)

PART - A

(Maximum Marks: 10)

Marks

- I. Answer all the questions in one or two sentences. Each question carries 2 marks.
 - 1. Define local variable in C language.
 - 2. Name any two multi way selection structure in C.
 - 3. Define one dimensional array in C.
 - 4. Define pointer in C language.
 - 5. Define formal parameters in C language.

 $(5 \times 2 = 10)$

PART - B

(Maximum Marks: 30)

- II Answer *any five* questions from the following. Each question carries 6 marks.
 - 1. Explain relational and logical operators in C language.
 - 2. Write a C program to find largest of two numbers.
 - 3. Explain counter controlled looping in C language.
 - 4. Write the syntax of while, do-while loop in C.
 - 5. Briefly explain any three string function in C language.
 - 6. Explain the structure of user defined function with example.
 - 7. Differentiate call by value and call by reference.

 $(5 \times 6 = 30)$

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.

(8)

	(b) Write a C program to find area of rectangle (area=length * width).	(7)
	OR	
IV	(a) Explain data types in C programming language.	(8)
	(b) Write a program using switch statement in C.	(7)
	UNIT – II	
V	(a) Explain for loop nested looping in C language with example.	(8)
	(b) Write a C program to search an element in an array.	(7)
	OR	
VI	(a) Write a C program to find transpose of a matrix.	(8)
	(b) Explain the two-dimensional array declaration and initialization.	(7)
	UNIT – III	
VII	(a) Explain pointer arithmetic in C language.	(8)
	(b) Write a C program to find reverse of a string without using string function.	(7)
	OR	
VIII	(a) Explain the use of pointer in C programming language.	(8)
	(b) Write a C program to find length of a string without using string function.	(7)
	UNIT – IV	
IX	(a) Write a C program to find the multiplication of two numbers using	
	user defined function.	(8)
	(b) Explain array operations using pointers.	(7)
	OR	
X	(a) Write a C program to find the largest elements in an array using a user	
	defined function. Use pointer to pass the array into the function.	(8)
	(b) Explain recursion with the help of an example.	(7)
