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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/ COMMERCIAL PRACTICE – APRIL -2020.

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. If x=5 and y=x++, find the value of y.
 - 2. List any two multiway selection structures.
 - 3. Mention the syntax of for loop.
 - 4. Define a pointer.
 - 5. Define formal parameters.

(3x2=6)

PART - B

- II Answer any four of the following questions. Each question carries 6 marks.
 - 1. Explain the rules for naming a variable.
 - 2. Explain the syntax of while loop with the help of an example.
 - 3. Write a C program to sort the elements in an array in ascending order.
 - 4. Describe the declaration and initialization of pointer variables with example.
 - 5. List and explain the functions used for writing strings.
 - 6. Write a C program to read two numbers. Find their product using a user defined function.
 - 7. Explain the general format of function definition.

[4x6 = 24]

PART - C

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

UNIT I

III (a) Explain the structure of a C program with example. (8)

(b) Write a C program to find the largest among three numbers. (7)

IV	(a)	Describe the various data types in C with suitable examples.	(8)
	(b)	Write a C program to display the area of a circle.	(7)
V	(a)	UNIT- II With suitable example, explain exit controlled loop.	(8)
	(b)	Write a C program to find the transpose of a matrix.	(7)
		OR	
VI	(a)	Explain the declaration and initialization of one dimensional array with example.	(8)
	(b)	Write a C program to check whether the given number is palindrome or not.	(7)
		UNIT- III	
VII	(a)	Explain any two pointer arithmetic operations in C with example.	(8)
	(b)	Write a C program to swap two numbers using pointers.	(7)
		OR	
VIII	(a)	Describe the string handling functions to concatenate two strings with example.	(8)
	(b)	Write a C program to read a string and display its reverse without using strrev().	(7)
		UNIT – IV	
IX	(a)	Compare call by value and call by reference with the help of examples.	(8)
	(b)	Write a C program to read two numbers, pass these values to a function, find the smallest and return to the main() program.	(7)
		OR	
			(0)
X	(a)	Explain recursive function with the help of a suitable example.	(8)
	(b)	Write a user defined function to find the sum of elements in an array. Pass arras arguments to the function.	(7)
