

THIRD SEMESTER DIPLOMA EXAMINATION IN ENGINEERING
AND TECHNOLOGY

PROGRAMMING IN C
MODEL QUESTION PAPER – SET-1

Time: 3 hours

Maximum Marks: 75

PART A

I. Answer all the following questions in one word or sentence.

(9 x 1 = 9 Marks)

		Module Outcome	Cognitive level
1	Write the syntax for header file inclusion in a c program	M 1.01	U
2	Write two examples for bitwise operators	M 1.04	U
3	Give an example for unconditional control statement	M 2.03	R
4	At least one loop execution is ensured in loop structure	M 2.02	U
5	A pointer variable holds of a variable	M 3.01	U
6	Name the built in string function used for finding length of a string	M3.05	R
7	Write the syntax for declaring a pointer variable	M 3.01	U
8	A function returning nothing will have a return type	M 4.03	R
9	A function calls itself is called	M 4.06	U

PART B

II. Answer any Eight questions from the following

(8 x 3= 24 Marks)

		Module Outcome	Cognitive level
1	Write the structure of a C program	M 1.01	R
2	Explain type casting	M 1.05	U
3	Illustrate the structure of nested if control structure	M 2.01	U
4	Illustrate the use of goto	M 2.03	U
5	Explain two dimensional array declaration	M 2.05	A
6	Illustrate pointer increment operation	M 3.02	R

7	Explain gets() function	M 3.04	A
8	What is strcpy()	M 3.05	R
9	List advantages of functions	M 4.01	R
10	Differentiate user defined function from built in function	M4.02	U

PART C

III. Answer all questions from the following (6x 7 = 42 Marks)

Module Outcome Cognitive level

1	Explain different types of data types used in C programming	M 1.02	A
OR			
2	Illustrate arithmetic, relational and logic operators	M 1.04	A
3	Write a program to print n natural numbers using for loop	M 2.02	A
OR			
4	Write program to display digit to words using switch	M 2.01	A
5	Write a program to find the sum of diagonal elements in a 3 x 3 matrix	M 2.06	A
OR			
6	Illustrate array insertion with an example	M 2.04	U
7	Write a program to compare the values of two integer variables using pointers.	M 3.01	A
OR			
8	Illustrate accessing of strings using pointers	M 3.03	U
9	Distinguish call by value and call by reference	M 4.05	U
OR			
10	Find factorial of a number using recursive function	M 4.06	A
11	Add two numbers using functions use call by reference	M 4.05	A
OR			
12	Write a program to add two matrixes, use function for addition	M 4.03	A

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MODEL QUESTION PAPER – SET-2

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Maximum Marks: 75

PART A

IV. Answer all the following questions in one word or sentence.

(9 x 1 = 9 Marks)

Module Outcome Cognitive level

1	The keyword allows a programmer to tell the compiler that a particular variable should not be modified after the initial assignment in its declaration	M 1.02	R
2	What is the data type used for storing a single character	M 1.02	R
3 is an example for a control structure	M 2.01	R
4	Name the control statement used to exit from a block unconditionally	M 2.03	R
5	Write the syntax for <i>for</i> loop	M 2.02	U
6	Name the string handling function to join two strings together	M 3.05	U
7	gets() is the function used for	M 3.04	U
8	return(0) indicates, the function will return to the called function	M 4.03	U
9	Pointers are utilized in call by function arguments	M 4.05	U

PART B

V. Answer any Eight questions from the following

(8 x 3= 24 Marks)

Module Outcome Cognitive level

1	Explain any two types of assignment operators	M 1.04	U
2	Explain conditional operator	M 1.04	A
3	Write a program to read a 2 x 2 matrix and display the matrix	M 2.05	A
4	Distinguish between while and do-while looping structures	M 2.02	U
5	Explain goto statement.	M 2.03	U
6	Explain the concept of pointer	M 3.01	R
7	Illustrate strcmp()	M 3.05	U

8	Illustrate how to access array elements using pointers	M 3.03	U
9	Explain function declaration	M 4.02	U
10	What are the types of functions	M 4.01	R

PART C

VI. Answer all questions from the following (6x 7 = 42 Marks)

Module Outcome Cognitive level

1	Define data types, and classify	M 1.02	U
OR			
2	Explain different types of logical operators with examples	M 1.04	U
3	Illustrate the structure of a c program with example	M 1.01	U
OR			
4	Explain basic input functions in c	M 1.03	U
5	Write a program for checking a given integer is even or odd using if else statement	M 2.01	A
OR			
6	Write a program to find the transpose of a matrix	M 2.06	A
7	Illustrate gets() and puts() functions using example program	M 3.04	U
OR			
8	Explain different types of pointer arithmetic operations	M 3.02	U
9	Write a program to add two numbers using functions	M 4.04	A
OR			
10	Write a program to swap the values of two numbers using call by values	M 4.05	A
11	Find the factorial of a number using recursive function	M 4.06	A
OR			
12	Write a program to add two numbers using call by reference	M 4.05	A