TED (15) – 4044 Reg. No. ……..…….

(Revision – 2015) Signature ……..

FOURTH SEMESTER DIPLOMA EXAMINATION IN ENGINEERING/ TECHNOLOGY

PROGRAMMING IN C

MODEL QUESTIONPAPER

Time : 3 hours

(Maximum marks : 100)

Marks

PART – A

(Maximum marks : 10)

I Answer all questions in one or two sentences. Each question carries 2 marks.

1. List any two escape sequences with their use.
2. Define loop.
3. Write the syntax to declare a pointer variable.
4. Write the use of return statement.
5. List library functions used to find the length and reverse of a string. (5 x 2 = 10)

PART – B

(Maximum Marks : 30)

II Answer any five of the following questions. Each question carries 6 marks.

1. Explain rules for defining variables.
2. Explain how one dimensional arrays are created.
3. Explain the features of pointers.
4. Compare local and global variables.
5. List the six bit wise operators in C.
6. Explain counter controlled loop with example.
7. Compare call by value and call by reference. (5 x 6 = 30)

PART – C

(Maximum marks : 60)

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

MODULE – I

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

b. Write a C program to find the area of a circle. 7

OR

IV a. Explain any two integer, real and character data types used in C with example. 6

b. Write a C program to read the month number (between 1 and 12) and display the corresponding month name (1-Jan, 2-Feb,…12-Dec) using switch statement. 9

MODULE – II

V a. Write C program to find the sum of first N odd numbers using while loop. 8

b. Explain how two dimensional arrays are created. 7

OR

VI a. Compare entry controlled loop and exit controlled loop. 8

b. Write a C program to find the sum of elements of an array. 7

MODULE – III

VII a. Explain any three possible pointer arithmetic operations. 6

b. Write a C program to read a string and get its duplicate without using string function. 9

OR

VIII a. Explain the use of NULL character in the declaration and initialization of strings. 6

b. Explain comparison of two pointers with the help of a program. 9

MODULE – IV

IX a. Write a C program to send two numbers into a user defined function and find its product. 8

b. Explain recursion with the help of an example. 7

OR

X a. Write a C program to find the largest element in an array using a user defined function. Use pointer to pass the array into the function. 8

b. Write a C program to add two arrays using a user defined function. Pass arrays as arguments to the function. 7