R18 Regulation *Subject code:2E2AB*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A' Grade)

B.Tech II Semester Supplementary Examinations, September 2023

Computer Programming in C

(Common to CE,EEE,ME and IT)

Maximum Marks: 70 Date:25.09.2023 Duration: 3 hours

Note: **1.This question paper contains two parts A and B.**
2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks (10x2M=20 Marks)

1 Differentiate application programming and system programming.
2 How real numbers and integers are stored.
3 List the types of storage classes.
4 What is a predefined function? Give example.
5 What is a void pointer? Give its uses.
6 How Pointer can be used for accessing multi-dimensional Arrays?
7 Write the syntax for enumerated data type. Give example.
8 Distinguish between structure and union.
9 List the advantages of using files.
10 What is meant by a binary file?

Part-B

Answer All the following questions. (5X10M=50Marks)

11 What is precedence of operators? Explain with example. [10]

OR

12 Explain the significance of 'break' and 'continue' statement with a sample program. [10]

13 A. What are recursive functions? Give example. [5]

B. Explain the usage of two-dimensional arrays. [5]

OR

14 A. Compare and contrast array of pointer with an example. [5]

B. How to pass an array to a function? Explain. [5]

15 Write a C program using switch conditional statement. [10]

OR

16 With a sample 'C' program explain the concept of passing structures through pointers. [10]

17 A. Distinguish Unions and Structures along with programming examples. [5]

B. Explain the Enumerated data types with an example. [5]

OR

18 With a sample 'C' program explain the concept of passing structures through pointers. [10]

19 Write a 'C' program to read the content of source file and convert all upper case letters in source file into lower case letters. [10]

OR

20 Write a C program using file positioning functions as fseek(), rewind() and ftell() functions. [10]