



R17 Regulation  
TKR COLLEGE OF ENGINEERING AND TECHNOLOGY  
(Autonomous, Accredited by NAAC with 'A' Grade)

Subject code: 1E1AD

B.Tech I Year I Semester Supplementary Examinations, March/April 2023

Computer Programming in C  
(Common to CE & ME)

Maximum Marks: 70

Date: 12.04.2023 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

- 1 Differentiate application programming and system programming. (10x2M=20 Marks)
- 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 Define pointer.
- 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. [10m]
- 12 Explain the significance of 'break' and 'continue' statement with a sample program. [10m]
- 13 Explain the types of searching and write a program to implement linear search. [10m]
- 14 Write a program to implement stack operations. [10m]
- 15 What are recursive functions? Give example. [10m]
- 16 Compare and contrast array of pointer and pointer to arrays. [10m]
- 17 A. Distinguish Unions and Structures along with programming examples. [5m]  
B. Explain the Enumerated data types with an example. [5m]

OR

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

OR

- 20 Write a C program to print the details of the theatres when given a movie name (use files to store the theatre and movie details). [10m]