



R17 Regulation

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

Subject: 1E2AH

B.Tech. I Year II Semester Supplementary Examinations, September 2023

Computer Programming in C
(Common to EEE, ECE, CSE & IT)

Maximum Marks:70

Date:22.09.2023 Duration: 3hours

- 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.
 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. Write on Computer Languages?
2. Explain the difference between break, continue statements.
3. Write the applications of queue?
4. What is inter function communication?
5. What are the different storage classes in C?
6. Define a pointer.
7. What is the difference between the User defined functions and Library functions?
8. What are the differences between structures and functions?
9. List the different types of files?
10. Write the syntax and usage of fseek()?

Part-B

All the following questions carry equal marks

5X10M=50Marks

11. Write an algorithm and draw flowchart to know whether the given number is even or odd?
10M

OR

12. State and explain various identifiers in 'C' program and also discuss about operator precedence in expression evaluation with a suitable example?
10M

13. Define Stack. Write a C program to implement all operations of a stack. 10M

OR

14. Distinguish between Linear and Non Linear data structures with examples? 10M

15. Write a 'C' program to find sum of 'n' natural numbers by using non-recursive and recursive functions separately. 10M

OR

16. Write a 'C' program using functions that reads an array of integers and reverses the elements of an array using pointers? 10M

17. With the help of syntax and example program explain the various string handling functions? 10M

OR

18. Write a 'C' program to check whether the given string is palindrome or not using string functions? 10M

19. Explain the file input and output functions with example programs? 10M

OR

20. Write a 'C' program for the student information system database for the add a new student details to the present database? 10M