



Regulation R18

Subject code: 2E1AJ

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech I Semester Supplementary Examinations, September 2023

## Computer Programming in C

(Common to ECE & CSE)

Maximum Marks: 70

Date:04.10.2023 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.  
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. Define Algorithm.
2. Convert the following  $(2546)_{10} = (?)_8$
3. What is variable and explain with syntax?
4. List any two differences between while and do-while loop.
5. Define data structure.
6. Define pointer.
7. Define Nested structure.
8. List any five string handling functions.
9. Define file positioning functions.
10. Define call by reference.

Part-B

Answer all the following questions

5X10M=50Marks  
10

11. Explain about the computer languages with examples.  
OR  
12. Explain about the selection statements present in c language.
13. Define Array. Explain types of Arrays with an example.  
OR  
14. Define linear data structure? Write differences between stack and queue.
15. Define storage class? Explain different types of storage classes.  
OR  
16. Define pointer to a pointer? Explain with an example.
17. Define String? Develop a C program to check whether given string is palindrome or not.  
OR  
18. a) Explain about pre-processor commands in C language?  
b) Compare and Contrast structure and union?
19. Explain about file handling functions in C language.  
OR  
20. Develop a C program to merge two files into a third file.

