



Regulation R18

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

Subject code: 2E1AJ

**B.Tech I Semester Supplementary Examinations, April 2023**

**COMPUTER PROGRAMME USING C**  
(Common to ECE & CSE)

Maximum Marks: 70

Date: 15.04.2023 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.
  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 an algorithm.
2. Convert the following  $(2546)_{10} = (?)_8$
3. List out different storage classes.
4. Write the syntax for declaring an array?
5. Define data structure.
6. List the advantages of pointers.
7. Differentiate structure and union.
8. Define a String.
9. Define file.
10. What is the use of `fseek()` in files?

**Part- B**

Answer all the questions

(5X10M = 50M)

11. Explain about the computer languages with an example. [10m]  
(OR)
12. Explain about the selection statements present in c language. [10m]
13. Explain about different types of arrays in C with an example. [10m]  
(OR)
14. Explain different Categories of User- defined functions with an example. [10m]
15. Write a short note on Call-by-reference. Develop a C program that swaps two numbers using pointers. [10m]  
(OR)
16. Explain various string manipulation functions used in C with an example each. [10m]
17. Define String? Develop a c program to check whether given string is palindrome or not. [10m]  
(OR)
18. Write the syntax of `strcmp()` fuction. Write a C program to sort given list of names. [10m]
19. Develop a C Program that copies one file to another, replacing all lowercase characters with their uppercase equivalents. [10m]  
(OR)
20. Explain about file handling functions in c language. [10m]