



Regulation R18

**TKR COLLEGE OF ENGINEERING AND TECHNOLOGY**

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

Subject code: 2E1AJ

**B.Tech I Semester Supplementary Examinations, January 2024**

**COMPUTER PROGRAMME USING C**

(Common for ECE & CSE)

**Maximum Marks: 70**

**Date: 27.01.2024 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=20Marks	CO Bloom Tx
1.	Define Algorithm. Write an algorithm to check whether number is prime or not?	CO1	L1
2.	Convert the following $(2546)_{10} = (?)_8$	CO1	L1
3.	What is variable and explain with syntax?	CO2	L1
4.	List the differences between while and do-while loop?	CO2	L2
5.	Define data structure and Explain?	CO3	L1
6.	Define pointer and explain with an example?	CO3	L1
7.	Define Nested structure? Give one example.	CO4	L1
8.	List any five string handling functions with syntax?	CO4	L1
9.	Explain about file positioning functions?	CO5	L2
10.	Define call by reference? Explain with an example.	CO5	L1
Part-B			
Answer all the following questions		10Mx5=50Marks	
11.	Explain about the computer languages with an example. [10M]	CO1	L2
	OR		
12.	Explain about the selection statements present in c language. [10M]	CO1	L2
13.	Define Array. Explain types of Arrays with an example. [10M]	CO2	L1
	OR		
14.	Define a function. Explain with a program. [10M]	CO2	L2
15.	Define storage class? Explain different types of storage classes. [10M]	CO3	L1
	OR		

16.	Define pointer to a pointer? Explain with an example. [10M]	CO3	L1
17.	Define String? Develop a c program to check whether given string is palindrome or not. [10M]	CO4	L5
	OR		
18.	a) Explain about pre-processor commands in c language? [5M] b) Compare and Contrast structure and union? [5M]	CO4	L4
19.	Explain about file handling functions in c language? [10M]	CO5	L2
	OR		
20.	Develop a c program to merge two files into a third file. [10M]	CO4	L5