



R18 Regulation

Subject code:2E2AB

**TKR COLLEGE OF ENGINEERING AND TECHNOLOGY**

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

**B.Tech II Semester Supplementary Examinations, January 2026**

**COMPUTER PROGRAMMING USING C**

(Common to CE, EEE, ME & IT)

Maximum Marks: 70

Date:24.01.2026

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)		Marks	CO	BTL
1	Define an Algorithm.	2M	1	L1
2	Define Expression.	2M	1	L1
3	List out Different storage class.	2M	2	L1
4	Write the syntax for declaring the user-defined function.	2M	2	L1
5	What are the different memory allocation functions?	2M	3	L1
6	Define string.	2M	3	L1
7	List the name of operations on stack.	2M	4	L1
8	Define a structure.	2M	4	L1
9	What is meant by text file?	2M	5	L1
10	List file error handling functions.	2M	5	L1

**Part-B**

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Explain various looping statements, each with an example in C.	10M	1	L2
OR				
12	Write a C program to find the factorial of a positive integer?	10M	1	L2
13	Develop a C program that performs multiplication of two matrices? Hint using arrays.	10M	2	L2
OR				
14	Explain different categories of user-defined functions with an example.	10M	2	L2
15	What are the different memory allocation functions supported in C? Explain each of them with an example.	10M	3	L2
OR				
16	Explain various string manipulation functions used in C with an example each.	10M	3	L2
17	What is meant by structure? Define a structure named salary and another structure name allowance, as the member of salary structure. Develop a C program that read data into structure members using structure variables of salary and allowance structures.	10M	4	L2

	OR			
18	Briefly discuss about Bit fields, self-referential structures pre-processor commands.	10M	4	L2
19	Write a C program to merge two files into a third file.	10M	5	L2
	OR			
20	What are different file I/O operations, and demonstrate them with an example program?	10M	5	L2