



R18 Regulation

Subject code:2E2AB

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech II Semester Supplementary Examinations, July 2025

COMPUTER PROGRAMMING USING C

(Common to CE, EEE, MECH & IT)

Maximum Marks: 70

Date:17.07.2025

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 classes.	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	Define a function what are different types of functions based on the arguments passed to it.	10M	2	L2
	OR			
14	Explain different categories of 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	What are the different string handling functions? Write a C Program to find whether a given string is a palindrome or not.	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	Define a Linear data structure? Differentiate stack and Queue? List all the operations performed on stack with an example.	10M	4	L2
19	Develop a C Program that copies the content of one file to another file.	10M	5	L2
	OR			
20	Write about different file positioning functions in C, write a C program to demonstrate the concept of file positioning?	10M	5	L2