



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 2024
Computer Programming using C
(Common to CE,EEE,ME & IT)

Maximum Marks: 70

Date:31.01.2024 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=20 Marks)		CO	Bloom Tx
1	Define the term Algorithm.	CO1	L1
2	Write a C Program to interchange the two values without using third variable?	CO1	L2
3	Define Recursion?	CO2	L1
4	How to pass one dimensional arrays to functions?	CO2	L2
5	What is a void pointer? Give its uses.	CO3	L1
6	Differentiate between Union and Structure.	CO3	L2
7	'C' is a Structured programming language , justify?	CO4	L2
8	What is function?	CO4	L1
9	What is the use of rewind()?	CO5	L1
10	Write a syntax for opening a file and give example?	CO5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)			
11	Discuss about the various bitwise operators supported by Language 'C'. [10M]	CO1	L2
OR			
12	A. Write a 'C' program to print all prime numbers from 1 to N using while loop. [5M] B. Explain the significance of 'break' and 'continue' statement with a sample program. [5M]	CO1	L2 L2
13	A. What are recursive functions? Give example. [5M] B. Explain the usage of two-dimensional arrays. [5M]	CO2	L2 L2
OR			
14	Write a program to find GCD of two numbers using recursion. [10M]	CO2	L2
15	What is a string? How do you initialize? Write a program to insert a sub string into main String. [10M]	CO3	L3
OR			

16	Explain about dynamic memory allocation. [10M]	CO3	L2
17	A. Explain about command line arguments and preprocessor commands. [5M] B. Explain about self-referential structures with example. [5M]	CO4	L2 L2
	OR		
18	With a sample 'C' program explain the concept of passing structures through pointers. [10M]	CO4	L3
19	A. Write a 'C' program to read the content of source file and convert all upper-case letters in source file into lower case letters. [7M] B. Compare text files and binary files. [3M]	CO5	L3 L2
	OR		
20	Write a C program to print the details of the theatres when given a movie name (use files to store the theatre and movie details). [10M]	CO5	L3