



B.Tech II Semester Regular/Supplementary Examinations, June 2024

C PROGRAMMING FOR PROBLEM SOLVING (CE)

Maximum Marks: 60

Date: 26.06.2024 Duration: 3 hours

- Note:**
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 10 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 (10X1M=10 Marks)			CO	Bloom Tx
1.	a	Write about identifiers and types in C?	CO1	L1
	b	Define an algorithm.	CO1	L1
	c	Define an array? Give syntax for declaring one dimensional array?	CO2	L1
	d	Define Recursion and write its limitations?	CO2	L1
	e	Write String output functions	CO3	L1
	f	How to define pointer to a function?	CO3	L1
	g	Distinguish between structure and union.	CO4	L1
	h	Define preprocessor directive.	CO4	L1
	i	Write file status function?	CO5	L1
	j	Compare and contrast binary file and text file.	CO5	L1

Part-B

Answer All the following questions. (5X10M=50 Marks)				
2	A. Write an algorithm for sum of individual digits of a given number. [5M] B. Explain about the decision-making statements in C? [5M]		CO1	L2
OR				
3	Write a C Program to find GCD of two numbers. [10M]		CO1	L2
4	A. Give a recursive C function to print the first n Fibonacci numbers. [5M] B. Write a C program for Bubble Sort. [5M]		CO2	L2
OR				
5	A. Write a C program to add two matrices? [5M] B. Discuss the various parameter passing mechanisms with examples. [5M]		CO2	L2
6	A. Write a program to swap two numbers using pointers. [5M] B. Discuss the various string functions that can be performed on strings. [5M]		CO3	L2

	OR		
7	A. Write a C program to check whether the given string is palindrome or not. [5M] B. What is the difference between an array of pointers and pointer to the array. [5M]	CO3	L2
8	A. With an example explain passing structures through pointers. [5M] B. What is a self-referential structure? Give an example. [5M]	CO4	L2
	OR		
9	Define and declare a structure to store date, which including day, month and year. Explain it with an example. [10M]	CO4	L2
10	A. Write a program to merge two files into one file. [5M] B. Demonstrate the use of fread() and fscanf() for reading. [5M]	CO5	L2
	OR		
11	Write short notes on fseek(), rewind(), ftell() with examples. [10M]	CO5	L2