



**B.Tech I Semester Supplementary Examinations, June 2024**  
**C Programming for Problem Solving**  
 (Common to ME,ECE,CSE,CSM,CSD & IT)

**Maximum Marks: 70**

**Date:05.07.2024 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	List out the characteristics of an algorithm.		1	L1
2	List out how the variables are declared in C.		1	L1
3	How to declare and initialize an array?		2	L1
4	What is recursive function?		2	L1
5	What is double pointer?		3	L1
6	What is the usage of realloc()?		3	L1
7	Define complex structure.		4	L1
8	What is command-line arguments?		4	L1
9	What is pre-processor commands?		5	L1
10	Write about fseek()?		5	L1

**Part-B**

Answer All the following questions.		(5X10M=50Marks)		
11	Write a C program to find Fibonacci of a given number using while. [10]		1	L2
OR				
12	Explain about control statements. [10]		1	L2
13	Write a c program to perform matrix multiplication? [10]		2	L2
OR				
14	Explain about LIFO with a sample program. [10]		2	L2
15	Explain briefly about dynamic memory allocation with suitable examples? [10]		3	L2
OR				
16	What are the string manipulation functions? Explain their usage. [10]		3	L2
17	A. Explain about structures with an example. [5] B. Explain Unions in C. [5]		4	L2
OR				

18	Explain in detail about command line arguments and preprocessor commands with suitable example. [10]	4	L2
19	What is meant by a binary file? Discuss about file positioning functions. [10]	5	L2
	OR		
20	Define file? Explain in detail about streams. [10]	5	L2