



## B.Tech I Semester Supplementary Examinations, June 2024

### COMPUTER PROGRAMME USING C (Common to ECE & CSE)

**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	Define the 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	Define realloc().		3	L1
7	Define Nested structure? Give one example.		4	L1
8	List any five string handling functions with syntax?		4	L1
9	Write about file positioning functions?		5	L1
10	Define call by reference.		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	What are decision control statements? Write a C program to demonstrate else if ladder. [10]		1	L2
13	Write a c program to perform matrix multiplication? [10]		2	L2
OR				
14	Elaborate linear search technique with an example. [10]		2	L2
15	Explain briefly about dynamic memory allocation with suitable examples? [10]		3	L2
OR				
16	How pointers are useful for inter-function communication? Demonstrate a C program on it. [10]		3	L2

17	Explain: a) Pointer to structures b) Self-referential structure [5+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	Write a C program to copy one file content to another file by converting lower case characters to upper case characters and vice-versa. [10]	5	L2