



B.Tech II Semester Supplementary Examinations, June 2024
C Programming for problem solving
(Common to CE & EEE)

Maximum Marks: 70

Date:04.07.2024 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 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	Write the usage of realloc()?		3	L1
7	Define complex structure?		4	L1
8	What are command-line arguments?		4	L1
9	Distinguish between text files and binary files?		5	L1
10	Define fseek function.		5	L1
Part-B				
Answer All the following questions.		(5X10M=50Marks)		
11	Convert the following to hexadecimal, octal and binary? (1228) ₁₀ , (1213) ₂ , (2124) ₂ , (2028) ₁₀ ,	(10M)		L2
OR				
12	Explain about control statements?	(10M)		L2
13	Write a c program to perform matrix multiplication?	(10M)		L2
OR				
14	Explain about LIFO with a sample program.	(10M)		L2
15	Explain briefly about dynamic memory allocation with suitable examples?	(10M)		L2
OR				
16	What are the string manipulation functions? Explain their usage.	(10M)		L2
17	Explain about structures with an example.	(10M)		L2

	OR		
18	Define pointer and explain structure through pointer with suitable example. (10M)		L2
19	Illustrate briefly about file I/O functions? (10M)		L2
	OR		
20	Explain about positioning functions fseek(), rewind(), ftell(). (10M)		L2