



B.Tech I Semester Supplementary Examinations, June 2024

PROBLEM SOLVING USING C PROGRAMMING (Information Technology)

Maximum Marks: 60

Date:03.07.2024 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 No.	Bloom Tx
1.	a	Write the significance of the program development cycle.	1	1
	b	Differentiate between formatted and unformatted input/output operations in C.	1	1
	c	Define the array.	2	1
	d	Write about the Jump statements in C programming.	2	1
	e	What is recursion in the context of C functions?	3	1
	f	Define the functions in C.	3	1
	g	How do you declare and initialize an array of structures in C?	4	1
	h	Define the pointers in C programming.	4	1
	i	What role do command line arguments play in C programs?	5	1
	j	Write the purpose of graphics functions in C programming?	5	1

Part-B

Answer All the following questions.		(5X10M=50Marks)		
2	Explain Algorithm and flowchart. Represent Algorithm and flowchart to print a number is even or odd. 10M		1	2
OR				
3	Explain operator precedence and associativity with example. 10M		1	2
4	A. Write a c program to perform matrix multiplication? 7M		2	3
	B. Explain about two dimensional arrays. 3M			
OR				
5	Discuss about goto , break , continue with one example each. 10M		2	3
6	What are the advantages of functions in C. What is the difference between int main() and void main(). 10M		3	2
OR				

7	Explain various types of parameters passing mechanisms in C with an example. 10M	3	2
8	Explain about self-referential structures with an example. 10M	4	2
	OR		
9	Write about Nested structures with suitable C program. 10M	4	2
10	Write a short note on file operations with an example. 10M	5	2
	OR		
11	Explain about pre-processor directives with an example. 10M	5	2