R22

ANURAG Engineering College
(An Autonomous Institution)
I B.Tech I Semester Regular/Supplementary Examinations, January-2025
PROGRAMMING FOR PROBLEM SOLVING
(COMMON TO CSE, IT & AIML)

Time: 3 Hours   **Max. Marks: 60**

Section – A (Short Answer type questions)   (10 X 1M = 10M)
Answer All Questions

	Course Outcome	B.T Level	Marks
1. Define a Flowchart.	CO1	L1	1M
2. Write the Precedence of Arithmetic Operators?	CO1	L1	1M
3. Define an Array?	CO2	L1	1M
4. Write the syntax of the structure?	CO2	L1	1M
5. List the Text File Modes?	CO3	L1	1M
6. Write the syntax of fseek( ) function?	CO3	L1	1M
7. Define an argument.	CO4	L1	1M
8. Define Dynamic Memory Allocation?	CO4	L1	1M
9. Define Searching.	CO5	L1	1M
10. Define Time Complexity.	CO5	L1	1M

Section B (Essay Questions)
Answer all questions, each question carries equal marks.   (5 X 10M = 50M)

		CO	Level	Marks
11. A)	i) Draw a flowchart to find the biggest of two numbers.	CO1	L3	5M
	ii) List the Operators in C and Write a C Program to find the biggest of two numbers using Conditional Operator.			5M
	OR			
B)	Explain while loop with syntax & flowchart and write a C Program to display the multiplication table of a given number.	CO1	L3	10M
12. A)	How to declare and initialize a two-dimensional array and write a C Program to display the transpose matrix of a given matrix.	CO2	L3	10M
	OR			
B)	Explain basic String Handling Functions in C with syntax and example.	CO2	L3	10M
13. A)	What is a Pre-Processor Directive? Explain any Two Pre-Processor Directives with example Program.	CO3	L3	10M
	OR			
B)	Write a C Program to display the contents of a text file.	CO3	L3	10M
14. A)	Explain briefly Call by value and call by reference with example programs.	CO4	L3	10M
	OR			
B)	What is recursion? Write a program to find GCD of two given numbers using recursion.	CO4	L3	10M
15. A)	Write a C Program to find a key element in the given list using Linear Search.	CO5	L3	10M
	OR			
B)	Write a C Program to arrange the array elements in sorting order using Selection Sort.	CO5	L3	10M