

ANURAG Engineering College

(An Autonomous Institution)

I B.Tech I Semester Regular/Supplementary Examinations, Jan/Feb–2024

PROGRAMMING FOR PROBLEM SOLVING

(COMMON TO CSE, IT & AIML)

Time: 3 Hours**Max. Marks: 60****Section – A (Short Answer type questions)****(10 Marks)****Answer All Questions**

	Course Outcome	B.T Level	Marks
1. Define a Flowchart.	CO1	L1	1M
2. Write Two Syntactical Errors.	CO1	L1	1M
3. List types of arrays.	CO2	L1	1M
4. Compare structure and union?	CO2	L2	1M
5. Distinguish between the 'r' and 'r+' modes.	CO3	L2	1M
6. Write the syntax to open a File?	CO3	L1	1M
7. Write any two built in functions in C.	CO4	L1	1M
8. What is dynamic memory allocation?	CO4	L1	1M
9. Write the Best Time Complexity of the Linear Search.	CO5	L1	1M
10. What is Sorting.	CO5	L1	1M

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

11. A) Write an Algorithm to print the biggest of two numbers and Draw the Flowchart.	CO1	L2	10M
OR			
B) Write a C Program to display the given number is Prime or Not.	CO1	L3	10M
12. A) Define a structure. How to initialize a structure and access the structure elements? Explain with an example?	CO2	L3	10M
OR			
B) Write a C Program to check the given string is Palindrome or Not.	CO2	L3	10M
13. A) Briefly explain the File I/O Functions in C?	CO3	L3	10M
OR			
B) Write a C Program to display the contents from a Text File and display the count how many no. of characters is present in that Text File.	CO3	L3	10M
14. A) Write a C Program using recursive function to find the x power n?	CO4	L3	10M
OR			
B) Explain the Parameter Passing Techniques in C with examples?	CO4	L3	10M
15. A) Define Searching. Write a C Program to find the key element in the given list of elements using Linear Search using function.	CO5	L3	10M
OR			
B) Write a C Program to sort the array elements using Bubble Sort using function.	CO5	L3	10M