

ANURAG Engineering College

(An Autonomous Institution)

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

PROGRAMMING FOR PROBLEM SOLVING - I

(COMMON TO ALL BRANCHES)

Time: 3 Hours**Max. Marks: 75****Section – A (Short Answer type questions)****(25 Marks)****Answer All Questions**

	Course Outcome	B.T Level	Marks
1. Define an algorithm with an example.	CO1	L1	2M
2. List the salient feature of C language.	CO1	L1	3M
3. Define the type conversion in C.	CO2	L1	2M
4. List the increment and decrement operators in C language.	CO2	L2	3M
5. Define if-else statement with syntax.	CO3	L1	2M
6. Define the do-while statement with flow chart.	CO3	L2	3M
7. Define the function in C with syntax.	CO4	L1	2M
8. Define the storage class and list different storage classes in C.	CO4	L1	3M
9. Define one dimensional array with example.	CO5	L1	2M
10. Define string with an example	CO5	L1	3M

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

11. A) Explain in brief about the different data types in C.	CO1	L2	10M
OR			
B) Develop an algorithm and construct the flowchart to find the biggest of two numbers.	CO1	L3	10M
12. A) Explain relational and conditional operators with example programs.	CO2	L2	10M
OR			
B) Explain Type Casting in C with suitable example program.	CO2	L2	10M
13. A) Explain for loop and demonstrate with a C program to find the sum of N natural numbers.	CO3	L3	10M
OR			
B) Explain switch statement with an example to check whether the given character is vowel or consonant.	CO3	L3	10M
14. A) Explain various categories of user defined functions with an example.	CO4	L3	10M
OR			
B) Write a C Program to find the factorial value of a given positive number using recursion.	CO4	L2	10M
15. A) Explain two-dimensional array with an example to store 3 X 3 matrix and print it.	CO5	L3	10M
OR			
B) Write a C Program to check the given string is palindrome or not.	CO5	L3	10M