Question Paper Code: R22A11CS02

R22

ANURAG Engineering College

(An Autonomous Institution)

I B.Tech I Semester Regular/Supplementary Examinations, January – 2025

C PROGRAMMING FOR ENGINEERS

(ELECTRONICS AND COMMUNICATION ENGINEERING)

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 standard I/O in C programming	CO1	L1	1M
2.	Explain the concepts of loader and linker.	CO1	L2	1M
3.	Illustrate mixed operands in C language	CO2	L1	1M
4.	Outline the Conditional branching statements in detail	CO2	L2	1M
5.	What is call by reference?	CO3	L1	1M
6.	What is an array? Write the syntax for an array.	CO3	L1	1M
7.	What will the preprocessor do for a program?	CO4	L1	1M
8.	Explain the use of pointers in C.	CO4	L2	1M
9.	What are the benefits of using structure in C language	CO5	L1	1M
10.	Classify Sorting algorithms in detail.	CO5	L2	1M

Section B (Essay Questions)

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

11. A)	List out the data types in C. Explain the data types with a suitable example.	CO1	L3	10M
	OR			
B)	Define algorithm and flowchart. Draw a flow chart to check the given number is odd or even.	CO1	L3	10M
12. A)	Outline operator precedence and associativity in c with an example.	CO2	L3	10M
	OR			
B)	Compare while and for-loops. Give an example for each.	CO2	L3	10M
13. A)	Define 2D-array. Write a C program to find the sum of two matrices of order 2*2	CO3	L3	10M
	OR			
B)	Explain recursion function in C, with syntax. Give suitable example by using recursion function.	CO3	L3	10M
14. A)	Describe the use of pointers in self-referential structures.	CO4	L3	10M
	OR			
B)	Explain the standard preprocessors in C. Give an example for each.	CO4	L2	10M
15. A)	Explain the usage of structures, unions and their arrays.	CO5	L2	10M
	OR			
B)	Illustrate the Linear searching algorithm with an example.	CO5	L3	10M