Department of Computer Science and Engineering,
Anna University, Chennai- 600025
CS23302 – Data Structures (R 2025)
Practical
July – November 2026
Year/Sem/Batch : II/III/ N

Exercise: 01	Review of C Programming	03 – Jul - 2026

Observation (5 Marks)

Write a brief note on the following

1. Data Types
   - Primitive Data type
   - User Defined Data type
   - Derived Data type
   - Enumerated Data type
2. Control Structures
   - Conditional Control
   - Unconditional control
3. Branching
   - For
   - While
   - Do while
4. Functions
5. Pointers
6. Files

Execution (15 Marks)

Write a C program for the following problems.

1. Reverse an array of numbers.
2. Find the length of the string,
   - Without pointer.
   - With pointer.
3. Compare any two strings - use pointers.
4. Perform matrix multiplication – no pointer manipulation.
5. Perform matrix subtraction – use pointers.
6. Find area/volume of different shapes (any 3) using different programming modules.
7. Read and store students' enrollment details – use structure (NOT AS FILE). (* apply passing structure as a function argument approach).
8. Same as Q7 – use pointer as argument.

9. Generate nth Fibonacci term – use recursive function.
10. Create a list of players of your favorite game. Allow all possible updation to the list – use self referential structure.

Spot (5 Marks)

1. Write a C program to left rotate an array by n position

