

Reg.No:

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SNS College of Technology, Coimbatore-35.

(Autonomous)

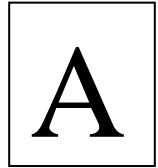
B.E/B.Tech- Internal Assessment -II

Academic Year 2023-2024(EVEN)

Second Semester (Regulation R2023)

COMPUTER SCIENCE AND ENGINEERING

23ITT101 – PROGRAMMING IN C AND DATA STRUCTURES



Time: 1^{1/2} Hours

Maximum Marks: 50

Answer All Questions

PART A — (5 x 2 = 10 Marks)

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| 1. List out the four types of function declaration. | CO2 | REM |
| 2. Distinguish between Call by value and call by reference | CO2 | ANA |
| 3. Write the logic for performing sorting of numbers in ascending order. | CO3 | APP |
| 4. What is Pointer? How a variable is declared to the pointer? | CO3 | UND |
| 5. What do you mean by non-linear data structure? Give example | CO3 | REM |

PART B — (2 x 13 = 26 Marks & 1 x 14 = 14 Marks)

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| 6. (a) Define function and Write a C program for arithmetic operations by using with argument with return type method and without argument, without return type method
(OR) | CO2 | APP | 13 |
| (b) Explain different classification of user defined functions based on parameter passing and return type with examples | CO2 | UND | 13 |
| 7. (a) Illustrate one dimensional array and its characteristics and Construct a C program to calculate the Sum of array elements.
(OR) | CO3 | UND | 13 |
| (b) Write a C program to perform matrix addition for the matrix size 3 X 3. | CO3 | APP | 13 |
| 8. (a) Construct the c program for swapping 2 numbers with temporary variable using call by value method with sample output
(OR) | CO2 | APP | 14 |
| (b) What is purpose of the 'Structure' in language C? Explain in detail with an example program. | CO3 | APP | 14 |

(Note: Und-Understand Rem-Remember Ana-Analyze App-Apply)