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# SNS College of Technology, Coimbatore-35. (Autonomous)

### B.E/B.Tech- Internal Assessment -II Academic Year 2022-2023(EVEN) Second Semester



## 19ITT101 & PROGRAMMING IN C AND DATA STRUCTURES [Common to AERO, AUTO, CIVIL, FT& MCT]

Time: 1<sup>1/2</sup> Hours Maximum Marks: 50

### **Answer All Questions**

#### PART-A $(5 \times 2 = 10 \text{ Marks})$

1.	. List out the loop statements in C.				Rem		
2.	. Compare and Contrast Call by value & Call by reference function.				Ana		
3.	3. State the syntax for declaration of one & two dimensional array.			CO3	Rem		
4.	4. What is the use of pointers.			CO3	Und		
5.	5. Define Data Structures.			CO3	Und		
PART-B $(13+13+14=40 \text{ Marks})$							
6.	(a)	Discuss in detail about different looping statements and write a program to find whether the given number is palindrome or not using while loop.  (or)	13	CO2	App		
	(b)	i)Demonstrate on implementation of switch statement with an example program.	7	CO2	Und		
		ii)Write a program for initializing function call without arguments and with return value to perform addition of two numbers.	6	CO2	App		
7.	(a)	i)Write a program for searching element in an one dimensional array for the given input elements (21,55,18,72,34,45,88)	7	CO3	App		
		ii) Discuss about the application of pointers and how pointer variable will be declared and initialized.	6	CO3	Und		

- (b) Elaborate in detail on the concept and implementation of 13 CO3 App structures and analyze how it can be implemented for gathering student's details.
- 8 a) Summarize in detail about the implementation and usage of 14 CO2 App functions. And construct program to swap two values using function call by value & call by reference.

(or)

b) Elaborate in detail about arrays and write a program to 14 CO3 App implement matrix multiplication using two dimensional array

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

Prepared by Verified by HoD