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SNS College of Technology, Coimbatore-35. (Autonomous) B.E/B.Tech- Internal Assessment -II Academic Year 2023-2024(ODD) First Semester

23CST101 –PROBLEM SOLVING AND C PROGRAMMING [Common to CSE, IT, AI/ML, EEE]

Time: 1^{1/2} Hours

Maximum Marks: 50

Answer All Questions

PART-A (5 x 2 = 10 Marks)

1.	What is an assignment statement? Give the general form of an assignment statement.					Und
2.	Write	e a C program to swap the two	o variables without using third variab	ole	CO2	App
3.	How	to declare and initialize two-	Dimensional Array?		CO3	Ana
4.			tring copy operation using library fu	nction.	CO3	App
5.	Diffe	erence between strcmp () and	stricmp ().		CO3	Ana
		PAR	T–B (13 X 2 = 26 Marks)			
6.	(a)	and ending meter reading and decision-making statement The charges are as follows No of Units Consumed 200 - 500	Rate in (Rs.) 3.50	13	CO2	App
		100 - 200 less than 100	2.50 1.50			
			(OR)			
	(b)	Write a C program to implet1. Reverse the given function (7)2. Right Half Pyramid P	number without using library	13	CO2	App
7.	(a)	i) Define Array and list of Array in C.	out the various characteristics of	5	CO3	Und

ii) Write a C program to sort an element of array in ascending 8 CO3 App order.

(OR)

- (b) How string is declared and initialized? Explain any four 13 CO3 Und string manipulation functions with examples
- 8. (a) Write a program to calculate gross salary for the condition 14 CO2 App given below

Basic Salary (Rs.)	DA(Rs.)	HRA(Rs.)	Conveyance(Rs.)
>=5000	110 % of	20% of	500
	Basic	basic	
>=3000 &&<5000	100 % of	15% of	400
	Basic	basic	
<3000	90 % of Basic	10% of	300
		basic	

- (b) Write a C program that accepts (3×3 ordered matrices A and 14 CO3 App B), and compute the following
 - (i) Summation of Two numbers
 - (ii) Multiplication of Two numbers

(Note: U-Understand R-Remember Ana-Analyze App-Apply)

Prepared By

Verified By

HoD/Dean

Basic Salary(Rs.)	DA(Rs.)	HRA(Rs.)	Conveyance(Rs.)
>=5000	110 % of Basic	20% of basic	500
>=3000 &&<5000	100 % of Basic	15% of basic	400
<3000	90 % of Basic	10% of basic	300