

SNS College of Technology, Coimbatore-35. (Autonomous) B.E/B.Tech- Internal Assessment -I 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.	Defi	CO1	Und		
2.	Defi	CO1	Und		
3.	Diffe	CO1	Ana		
4.	Desc	CO1	Und		
5.	Men	CO1	Und		
		PART–B (13 X 2 = 26 Marks)			
6.	(a)	Illustrate in detail about the building blocks of algorithms with your own example.	13	CO1	App
		(or)			
	(b)	i) Explain in details about Computer Hardware and Software.	13	CO1	Und
7.	(a)	Draw a flow chart and write the algorithm and pseudo code for the following	13	CO1	App
		A. To check the greatest of three Numbers			
		B. To find the factorial of the given number			
		(or)			

	(b)	(b) i) Demonstrate the Structure of C Programming with your examples.				CO2	App
		ii) Explain the process of compilation	xplain the process of compilation and linking.				
8.	(a)	Read total shopping amount purchase apply the discount as per the following calculate and print the final amount the customer after subtracting the discourt	a then	14	CO1	App	
		Shopping Amount	Discount in %				
		5000 and above	25				
		1000 to 4999	10				
		Below 1000	5				
		Write down the algorithm, Flowchart above-mentioned problem.	or the				
	(b)	Analyze and illustrate the various dat management system.	yze and illustrate the various data types used for student gement system.			CO2	App

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

Prepared By

Verified By

HoD/Dean