

		SE	ET-1			
H.T No						

Sreenidhi Institute of Science and Technology

Regulations: A22

(An Autonomous Institution)

Code No: 9FC01 Date: 24-Mar-2023 (FN)

B.Tech I-Year I- Semester External Examination, March-2023 (Regular) PROBLEM SOLVING USING C (CIVIL, ECE, CS and IOT)

Time: 3	Hours			,	•	Max.Ma	rks:60		
No	te: a) No additio	nal answer si	heets will be provi	ided.					
	b) All sub-parts of a question must be answered at one place only, otherwise it will not be valued.								
	c) Missing data can be assumed suitably.								
Bloom's Cognitive Levels of Learning (BCLL)									
	Remember	L1	Apply	L3	Evaluate	L5			

Understand L2 Analyze L4 Create L6

Part - A Max.Marks: 6x2=12

ANSWER ALL QUESTIONS. EACH QUESTION CARRIES 2 MARKS.

		ANSWER ALL QUESTIONS, EACH QUESTION CARRIES 2 MARKS			
1	Dofi	ne global and local variables in C language.	BCLL L1	CO (s)	Marks
1 2	Defi	L1	CO2	[2M] [2M]	
3		L1	CO3	[2M]	
4		ne array. Is it static or dynamic? Justify your answer. ne macro. Is it a function.	 L1	CO4	[2M]
5		ne a pointer. Give an example.	 L1	CO5	[2M]
6		e any two examples for I/O function.	L1	CO6	[2M]
U	Cive	Part – B Max.Mar			
		ANSWER ALL QUESTIONS. EACH QUESTION CARRIES 8 MARKS.	NO. 0	AU-40	,
		ANOTHER ALL GOLDHOND, EACH GOLDHON OANNIED O MANIEN	BCLL	CO(s)	Marks
7.	a)	Sketch the syntax of C Programming Language and discuss the features of C programming.	L2	CO1	[8M]
		OR			
	b)	Write an algorithm and draw the flow chart to test whether the given integer is an even or an odd number.	L3	CO1	[8M]
8.	a)	Write a C Program to demonstrate arithmetic operators using Switch control statement.	L3	CO2	[8M]
		OR			
	b)	Discuss evaluating expression with suitable example in C program.	L2	CO2	[8M]
9.	a)	Write a function to perform addition of two square matrices with size n x n. OR	L4	CO3	[8M]
	b)	How many ways can we pass the individual elements to an array? Discuss with example.	L2	CO3	[8M]
10.	a)	Write a recursive function to count binary digits of a given positive non-zero integer and write a sample output for input $n = 11$. OR	L4	CO4	[8M]
	b)	Write the format and an example for the following math functions. i) Absolute ii) Ceil iii) Truncate iv) Round	L1	CO4	[8M]
11.	a)	Write a function to print sum of the elements of a matrix with size n x m if input elements are integers else print as invalid input. OR	L3	CO5	[8M]
	b)	Discuss the following string handling functions with syntax and suitable example program in C language. i) strcmp() ii) strrchr() iii) strcat() iv) strrev()	L2	CO5	[8M]
12.	a)	Write the syntax for the following positioning functions and give an example code. i) rewind() ii) fseek()	L1	CO6	[8M]
		OR			

b) Discuss stream file processing with suitable example.

[8M]

L2