ANURAG Engineering College

(An Autonomous Institution)

I B.Tech I Semester Supplementary Examinations, Jan/Feb-2024 C PROGRAMMING AND DATA STRUCTURES (COMMON TO CIVIL & EEE)

Time: 3 Hours		Max. Marl	ks: 60	
Section – A (Short Answer type questions)		(10	X 1M =	= 10M)
Answei	All Questions	Course	B.T	Marks
		Outcome	Level	
1.	What are the rules for variable declaration?	CO1	L1	1 M
2.	Find is the output of the following program.	CO1	L2	1M
	#include <stdio.h></stdio.h>			
	void main()			
	{			
	printf("value is = $%d$ ",(10++));			
3.	List the control structures in C?	CO2	L1	1 M
4.	Explain about an array with example?	CO2	L1	1M
5.	Define array of pointers with example?	CO3	L1	1M
6.	Compare gets () and scanf ()?	CO3	L2	1M
7.	Define Union?	CO4	L1	1M
8.	Explain the usage of typedef with example?	CO4	L2	1 M
9.	List Applications of Stack.	CO5	L1	1 M
10.	What are the basic operations of queue.	CO5	L2	1M
11. A)	Section B (Essay Questions) all questions, each question carries equal marks. Develop a C Program to biggest of two values using Conditional Operator? OR Develop a C Program to swap two variable values without using temporary variable?	•	10M = L3	50M) 10M 10M
12. A)	Develop a 'C' program to print the Fibonacci sequence. OR	CO2	L3	10M
B)	Develop a C program to find the square of any number using the function.	CO2	L3	10M
	Example: Input any number for square: 20 Expected Output: The square of 20 is: 400.00			
10 1		CO2	1.2	103.4
13. A)	OR	CO3	L3	10M
B)	Inspect and discuss the different ways of passing arrays as a parameter to a function.	CO3	L3	10M

R22

Question Paper Code: R22A11CS01

14. A)	Examine the need of nested structures? Explain with one example. OR	CO4	L3	10M
B)	Create two text files and write a C Program to copy the contents of from one file to another.	CO4	L3	10M
15. A)	Write a C Program to find the key element from the list of elements using Linear Search.	CO5	L3	10M
B)	OR Utilize selection sort and rearrange following numbers: 10, 6, 3, 7, 17, 26, 56, 32, 72	CO5	L3	10M