

ANURAG Engineering College

(An Autonomous Institution)

I B.Tech II Semester Supplementary Examinations, Jan/Feb-2024**PROGRAMMING FOR PROBLEM SOLVING – II****(COMMON TO ALL BRANCHES)****Time: 3 Hours****Max. Marks: 75****Section – A (Short Answer type questions)****(25 Marks)****Answer All Questions**

	Course Outcome	B.T Level	Marks
1. Define Structure? How to Initialize a Structure?	CO1	L1	2M
2. Write some of the differences between Structure and Union?	CO1	L2	3M
3. Define pointer. How can you declare it?	CO2	L1	2M
4. Give the syntax and explain arrays of pointers in detail	CO2	L2	3M
5. What are the Different file operations?	CO3	L1	2M
6. Explain command line arguments.	CO3	L2	3M
7. Differentiate between linear and non-linear data structures.	CO4	L1	2M
8. Differentiate between stack and queue data structures.	CO4	L2	3M
9. What are the draw backs of single linked list?	CO5	L1	2M
10. Which sorting algorithm is easily adaptable?	CO5	L2	3M

Section B (Essay Questions)**Answer all questions, each question carries equal marks.****(5 X 10M = 50M)**

11. A) Write the declaration syntax of structure. How the structures can be initialized and accessed with suitable example program.	CO1	L3	10M
OR			
B) Write a C program that defines a structure employee containing the details such as empno, empname, department name and salary. The structure has to store 20 employees in an organization. Use the appropriate method to define the above details and define a function that will display the contents?	CO1	L3	10M
12. A) Write a C Program to display the sum of the array elements using pointers.	CO2	L3	10M
OR			
B) Explain Call by Reference technique with suitable example program.	CO2	L3	10M
13. A) Briefly explain the File I/O Functions.	CO3	L3	10M
OR			
B) Write a C program to display the contents of the text file and to copy the contents into another file.	CO3	L3	10M
14. A) Write a C Program to perform the operations of stack using Arrays.	CO4	2	10M
OR			
B) Explain the various operations of queues.	CO4	2	10M
15. A) Write a C Program to find the key element in the array elements using Binary Search.	CO5	L3	10M
OR			
B) Write a C Program to sort the array elements using Bubble Sort.	CO5	L3	10M

