

ANURAG Engineering College

(An Autonomous Institution)

I B.Tech I Semester Regular/Supplementary Examinations, Jan/Feb-2024

C PROGRAMMING FOR ENGINEERS**(ELECTRONICS AND COMMUNICATION ENGINEERING)****Time: 3 Hours****Max. Marks: 60****Section – A (Short Answer type questions)****(10 X 1M = 10M)****Answer All Questions**

	Course Outcome	B.T Level	Marks
1. Explain the errors in compilation.	CO1	L2	1M
2. Define the concept of Assembler.	CO1	L1	1M
3. Explain type conversion in C language.	CO2	L2	1M
4. Give the syntax for while loop.	CO2	L1	1M
5. Explain function in C language	CO3	L2	1M
6. What is an array? Write syntax for defining an array.	CO3	L1	1M
7. What is a pointer.	CO4	L1	1M
8. Define command line arguments in C	CO4	L2	1M
9. Explain the usage of structure in C.	CO5	L2	1M
10. List the time complexity for Insertion and Bubble sort for all cases.	CO5	L2	1M

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

11. A) Define Algorithm. Convert the below algorithm into a flowchart and program.
Input: Radius of a circle
Step1: Start
Step 2: Read radius.
Step3: Calculate area, area=3.14*radius*radius
Step 4: Print area
Step 5: Stop
Output: Area
- OR**
- B) Explain Storage classes and its types. Define syntax for each type. CO1 L2 10M
12. A) What is an Operator? Outline the concept of arithmetic operators. Write an example by using arithmetic operators. CO2 L3 10M
- OR**
- B) Write the syntax of nested if. Write a C program to find biggest of three numbers using nested if. CO2 L3 10M
13. A) Explain the concepts of parameter passing techniques with a suitable example. CO3 L2 10M
- OR**
- B) What is a string. Write a program to store the name of 5 students in a class and display those names. CO3 L3 10M

14. A) Explain briefly File I/O Functions. CO4 L2 10M
OR
B) Write a C Program to display the contents from a text file using command line arguments. CO4 L3 10M
15. A) Write a C Program to search a key element in the given array using Binary Search. CO5 L3 10M
OR
B) Write a C Program to sort the array elements using Bubble Sort. CO5 L3 10M