

**PRAGATI ENGINEERING COLLEGE: SURAMPALEM  
(AUTONOMOUS)**

**I B.Tech I Semester Supplementary Examinations, July – 2024**

**PROGRAMMING FOR PROBLEM SOLVING USING C**

(Common to EEE,ME,ECE, CSE,CSE(DS), CSE(AI&ML),CSE(AI) and IT)

Time: 3 hours

Max. Marks: 70

**Answer ONE Question from each Unit  
All Questions Carry Equal Marks**

Q. No.	Question	BTL	CO	Marks
<b>UNIT – I</b>				
1.	a) Explain identifiers in C with examples.	K2	CO1	7M
	b) Illustrate storage classes and type qualifiers in C programming.	K2	CO1	7M
<b>OR</b>				
2.	a) Summarize with an example about following: Data types, variables, and constants .	K2	CO1	7M
	b) Explain the rules of precedence and associativity of operators in C expressions.	K2	CO1	7M
<b>UNIT – II</b>				
3.	a) What is <b>Simple-if</b> statement? Give different forms if-else statements using syntax	K1	CO2	7M
	b) Write a C program to check if the given number is prime or not. Using while loop.	K3	CO2	7M
<b>OR</b>				
4.	a) Explain logical, bitwise operators with examples.	K2	CO2	7M
	b) Compare while and do-while loops with an example for each.	K3	CO2	7M
<b>UNIT – III</b>				
5.	a) Write a C program to evaluate the average of values in an Array.	K3	CO3	7M
	b) List any five string handling functions and show its usage.	K2	CO3	7M
<b>OR</b>				
6.	a) Explain declaration and initialization of Array of Strings	K2	CO3	7M
	b) What is a Union? List the difference between Structures and Unions	K1	CO3	7M
<b>UNIT – IV</b>				
7.	a) Explain the concept of Array of Pointers with example	K2	CO4	7M
	b) Discuss various Processor Commands	K3	CO4	7M
<b>OR</b>				
8.	a) Explain L and R values in C Language and how are they used in C Language	K2	CO4	7M
	b) With proper example explain different arithmetic operators on Pointers	K2	CO4	7M
<b>UNIT – V</b>				
9.	a) Discuss the Types of Functions in C with examples?	K2	CO5	7M
	b) What is Stream? Describe two different methods of creating a Stream- Oriented data file	K1	CO5	7M
<b>OR</b>				
10.	a) Show how to pass Array to a Function in C.	K2	CO5	7M
	b) Write a program to Copy contents from one File to another File	K3	CO5	7M