

QP Code: D 123084		Total Pages: 1	Name:
			Register No.
SECOND SEMESTER (CUFYUGP) DEGREE EXAMINATION, APRIL 2025			
COMPUTER SCIENCE			
CSC2MN101 – FOUNDATIONS OF C PROGRAMMING			
2024 Admission onwards			
Maximum Time:2 Hours		Maximum Marks:70	
Section A			
All Questions can be answered. Each Question carries 3 marks (Ceiling: 24 Marks)			
1	What are the key steps in algorithm development?		
2	Define pseudocode and explain its significance.		
3	List different types of control statements in C.		
4	What are comments in C, and why are they useful?		
5	Differentiate between relational and logical operators with examples.		
6	What are the advantages of using functions in C?		
7	What is the significance of function parameters in C?		
8	Explain the difference between a function call and function definition.		
9	What are actual and formal parameters in functions?		
10	Define pointers and give a basic example of pointer declaration.		
Section B			
All Questions can be answered. Each Question carries 6 marks (Ceiling: 36 Marks)			
11	Explain how algorithms are used to solve real-world problems with an example.		
12	Write an algorithm and draw a flowchart for calculating the sum of the first N natural numbers.		
13	Explain the various data types used in C with examples.		
14	Write a C program to check whether a given number is even or odd using if-else.		
15	Discuss the differences between switch and if-else statements.		
16	Explain the different types of loops in C with examples.		
17	What are the basic string-handling functions in C? Explain with examples.		
18	Write a C program to reverse a string using functions.		
Section C			
Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)			
19	Discuss recursion in C. Explain with a program to find the Fibonacci series using recursion.		
20	Explain pointers in detail and discuss their applications in C programming.		