

End Semester /Reappear (Semester II) Examination May 2025

Programme: Diploma (CSE)

Course: Programming in C

Course Code: 3DPCC103

Enrolment no. _____

Full Marks: 70

Time: 3 Hrs.

Section I

1. Short Answer type questions. Answer any four.

4 x 5 = 20

- Differentiate between pointer and structure.
- Explain Algorithm, Pseudocode and Program in C Programming
- What is a one-dimensional (1-D) array? Write the syntax to declare and initialize a 1-D array.
- Explain the concept of finding the root of an equation.
- Define a linked list. What makes it different from an array?
- Define searching. List two types of searching techniques with examples.

Section II

Long Answer type questions. Answer any three.

3 x 10 = 30

- Explain Flowchart in C Programming with all the element in Flowchart.
- Write a program in C to take age as input from user and display the output whether he/she is eligible to vote or not. (Condition form voting: $age \geq 18$).
- Explain Pass by value and Pass by reference with example
- How we use pointer in C? Illustrate with an example.
- Write the two method of structure variable. Write a program in C to illustrate the self-referential structure?

Section III

Application based questions. Answer any one.

1 x 20 = 20

- Explain Operator Precedence? Write a Program in C to show the use of Arithmetic operator.
- Define Array in C. Describe the Advantages and Disadvantages in Array. Explain types of Array with Example.
- Discuss Recursive function in C. Explain the application, advantages and disadvantages of recursion. Write a program in C to find the Fibonacci number.
