

**K-1135**

Total Page No. : 3]

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**DIT-06**

**DIT IInd Semester  
Examination Dec., 2023**

**INTRODUCTION TO COMPUTER  
PROGRAMMING USING C**

**Time : 2 Hours]**

**[Max. Marks : 100**

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*Note :- This paper is of Hundred (100) marks divided into two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given there in. **Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.***

**Section-A**

**Long Answer Type Questions**      2×26=52

*Note :- Section 'A' contains Five (05) Long-answer type questions of Twenty Six (26) marks each. Learners are required to answer any *two* (02) questions only.*

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( 1 )

P.T.O.

1. What are basic data types available in “C” ? Write the significance of each data type. Write a C program to find the area of a circle.
2. What is pseudo code ? Explain with example, how it is used as a problem-solving tool ? Write a C program to find the factorial of a number.
3. What is structure ? Write a C program using structure declaration.
4. What is a pointer ? Explain how the pointer variable declared and initialized. Write a C program to find the sum of all elements in an array using pointer.
5. What are actual parameters and formal parameters ? Illustrate with example. Write a program in C using functions to swap two numbers ?

### **Section–B**

**Short Answer Type Questions**      4×12=48

**Note** :- Section ‘B’ contains Eight (08) Short-answer type questions of Twelve (12) marks each. Learners are required to answer any *four* (04) questions only.

1. Define Algorithm. Write an algorithm to find the largest of 3 numbers.
2. Show how break and continue statements are used in a C-program, with example.
3. Explain the different types of loops in C with syntax.
4. Explain different string manipulation library functions with example.
5. Define Array. Explain with suitable example how to declare and initialize ID array.
6. Write a program in C using functions to swap two numbers using call by reference concept.
7. What are Opening, closing, reading and writing of files.
8. Explain any *five* preprocessor directives in C.

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