

**A-0871**

**Total Pages : 4**

**Roll No. -----**

**DIT-06**

**Introduction to Computer Programming**

**Using C**

**(DIT)**

**2<sup>nd</sup> Semester Examination 2024(Dec.)**

**Time: 2:00 hrs**

**Max. Marks: 100**

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

**P.T.O.**

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## **Section-A (Long-Answer-Type Questions)**

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.

[2x26=52]

Q.1. Discuss about the following operators in C language with example.

- a. Bitwise operators
- b. Increment and decrement operators
- c. Logical operators

Q.2. Why do we use header files? What is the purpose of adding comments in a program?

Q.3. Write a program to print from 1 to n? Differentiate between break and continue. Define go to, exit and return statements.

- Q.4. Define Structure and write the general syntax for declaring and accessing members? What is meant by call-by-value and call-by reference?
- Q.5. What is multi-dimensional array? Write a program to print the array elements in reverse order.

### **Section-B (Short-Answer-Type Questions)**

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.

[4x12=48]

- Q.1. Define flowchart. Draw the flowchart and write a C program to compute simple interest.
- Q.2. What is function? Explain different classification of user defined functions based on parameters passing and return type with examples.

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- Q.3. What are the control structures? Explain with examples.
- Q.4. What is Preprocessor directive? Write a program to check whether a string is palindrome or not.
- Q.5. What is structure? How union are declared and its use? Explain Dynamic Memory Allocation.
- Q.6. Write about opening and closing of files? Describe putchar() and getchar ()?
- Q.7. Explain with example the following string function:
- a. Strlen( )                      b. strcpy ( )
  - c. strcat ( )                      d. strcmp ( )
- Q.8. Explain the following file function with example:
- a. fopen ( )                      b. fclose ( )
  - c. foef ( )                      d. fseek ( )

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