

A-827

Total Pages : 3

Roll No. -----

DIT-06

**Introduction to Computer Programming Using C
(DIT)**

2nd Semester, Examination 2024 (June)

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 given therein. 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)

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]

P.T.O.

- Q.1. Explain different data types supported by 'C' language. Write a program in C using functions to swap two numbers using global variables concept and call by reference concept.
- Q.2. Explain else-if ladder with syntax and its execution with example. Also draw flow chart for else-if ladder.
- Q.3. What is recursion? Write a program in C to find out factorial of a given number using recursion. List the differences between while loop and do-while loop.
- Q.4. What is array? Formal and Actual parameter, Recursive function.
- Q.5. What is File? Write a program in C to create a file, write some text into the file and print it.

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.
- Q.3. What are the formatted input and output functions. Explain with examples? What is the purpose of scanf() and print() statement?
- Q.4. Explain string manipulation library functions with their syntaxes. Write a program to check whether a string is palindrome or not.
- Q.5. What is an array? How a single dimension and two dimension arrays are declared and initialized?
- Q.6. Discuss basic file handling function.
- 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 ()
