

A-828

Total Pages : 3

Roll No.

MCS-401/DCA-101

MSCIT/DCA

(Introduction to Programming Using C)

1st Semester Examination, 2024 (June)

Time : 2:00 Hrs.

Max. Marks : 70

Note :- This paper is of Seventy (70) marks divided into Two (02) Sections '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.*

Section-A

(Long Answer Type Questions) 2×19=38

Note :- Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

1. Explain if, if-else, nested if-else and cascaded if-else with examples and syntax.
2. Explain string manipulation library functions with their syntaxes. Write a program to check whether a string is palindrome or not.
3. “What is function ? Explain different classification of user defined functions based on parameter passing and return type with examples.
4. What is function ? Explain different classification of user defined functions based on parameter passing and return type with examples.
5. Describe different ways to initialize the Structure. Write a program in C to read Name, Age and Roll of Two students and print them by using structure.

Section–B

(Short Answer Type Questions) 4×8=32

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

1. What is meant by pointer ? Write a program in C to input a String and print it in reverse order using pointer.

2. What is File ? Write a program in C to create a file, write some text in to the file and print it.
3. Differentiate the followings with example. Function Definition Vs. Function Declaration.
4. Distinguish between While-Do and Do-While looping structures. Write a program in C to calculate first 50 Fibonacci numbers using while-loop.
5. What are the different decision control and branching statements available in C ? Explain about each of them with suitable examples.
6. What is recursion ? Write a program in C to find out factorial of a given number using recursion.
7. What is a file ? Discuss about the various modes in which a file can be opened in C language. What are the functions associated with opening and closing a file in C language.
8. Describe the concept of “Function returning pointers” and “Pointers to functions” with examples.
