

**A-0816**

Total Pages : 3

Roll No. ....

**MCS-401/DCA-101**

**INTRODUCTION TO PROGRAMMING  
USING C**

**(MSCIT/DCA)**

Examination, June 2025

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. WAP in C to display the sum and average of numbers from 100 to 200 using pointers.
2. Explain typecast operators with example.
3. WAP in C for multiplication of two 3 by 3 matrix.
4. Classify all operators in C with its hierarchy.
5. Describe the two ways of passing parameters to functions.

### **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. List different tokens available in C.
2. Differentiate between while and do-while loop.
3. Give the operations permissible on pointers.
4. WAP to read an integer number. Print the reverse of this number using recursion.
5. Define an array with proper example and also write down the use of an array.

6. WAP to find sum of digits of a given number.
7. Develop an algorithm to find the greatest of three numbers.
8. WAP in C to print prime numbers between 1 & 100.

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