S-765

MCS-401/DCA-101

Introduction to Programming using C

(MSCIT/PGDCA/DCA)

1ST Semester, Examination 2022(Dec.)

Time: 2 Hours   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.

Section – A

(Long Answer – type questions)

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.

[2 x 19 = 38]

P.T.O.

Q.1. What are type qualifiers in a C program? And write a C Program to find product of two n x n matrices.

Q.2. What are the different operators used in C language? Explain each with the help of example.

Q.3. Write a program to display the following pattern:
*   *   *   *
*   *   *
*   *
*

Q.4. Write a program to find whether the given number is Armstrong number or not by using command line argument.

Q.5. Explain the different kinds of loops available in C with examples.

Section – B

(Short-answer-type questions)

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.

[4 x 8 = 32]

Q.1. What is the difference between the functions getch (), getchar(), getche()?

Q.2. Write an algorithm and draw a flowchart of program to find largest of n numbers.

Q.3. What are tokens? Explain the various types of tokens with example.

Q.4. Give the difference between 'array' and 'structure' with example.

Q.5. What is type conversion? What are the different ways of type conversion? Explain with an example.

P.T.O.

Q.6.   Define sin(), sinf() and sinl() function with an example.

Q.7.   What is the difference between strcmp() and strncmp().

Q.8.   Explain Pointer with help of an example.

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