

M-59/2110

10821/N

Total Number of Sheets Used: 1**Total Number of Questions: 9****Title of the Paper: Programming Fundamentals through C Language (PGDCA-103)****Maximum Marks: 70****Minimum Pass Marks: 35%**

Note: Candidates are required to attempt five questions in all, selecting two questions each from sections A and B and entire section C.

Section - A

Q1.	What is an operator? Explain the arithmetic, relational, logical, and assignment operators in C language.	10.5
Q2. (a)	Explain the use of break and continue statement in loops with example.	5
(b)	What are the differences between while and do while construct?	5.5
Q3.	Write a C Program to print the following output using nested loops. * * * * * * * * * * * * * * * * *	10.5
Q4.	What are the various data types available in C language? Discuss conditional statements with suitable example program of each.	10.5

Section - B

Q5. (a)	What is a file? Explain how the file open and file close functions handled in C.	6
(b)	Explain the concept of passing array to functions.	4.5
Q6.	Write a program in C to concatenate two strings using pointers.	10.5
Q7.	Write a program in C to multiply two 3-D matrices.	10.5
Q8.	What is a self-referential structures? Explain with suitable examples.	10.5

Section - C

Q9. (a)	What is the role of modulus operator in C? Does it work for floating-point numbers?	3
(b)	What are the limitations of union?	3
(c)	Write any two advantages of pointers.	3
(d)	Give the functions of sizeof operator.	3
(e)	What is recursion? How it is different from iteration.	3
(f)	Give an example of function returning pointer.	3
(g)	Why there is a need of structure initialization?	3
(h)	How do you pass parameters to main() function?	3
(i)	What is the need for functions?	2
(j)	What is escape sequence for Null character?	2