Roll No.

DD-770

M. A./M. Sc. (Fourth Semester) EXAMINATION, 2020

MATHEMATICS

(Optional—A)

Paper Fifth

[Programming in 'C' (With ANSI Features)-II]

Time: Three Hours
Maximum Marks: 70

Note: Attempt any *two* parts from each question. All questions carry equal marks.

Unit—I

- 1. (a) What is difference between local variable and global variable? Explain with example.
 - (b) What do you mean by storage classes? Explain the different types of storage classes.
 - (c) Write short notes on the following:
 - (i) The register specifier
 - (ii) ANSI rules for the syntax and semantics

Unit—II

2. (a) What do you understand by pointer? Explain the pointer arithmetic.

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	(b)	Write a program in C for find biggest number
		among three numbers using pointer.
	(c)	Explain the following:
		(i) Arrays of Pointer
		(ii) Passing Arrays as Function Arguments
		Unit—III
3.	(a)	Write a program in 'C' to read matrix A (M \times N) and matrix B (N \times P) and calculate its multiplication
		using functions.
	(b)	What is the role of recursion function? Explain with any <i>one</i> C program that using recurion function.
	(c)	Explain the following:
		(i) Macro substitution
		(ii) Line control
		Unit—IV
4.	(a)	Write a program in 'C' to define a structure studen with name, class and roll-no. Enter data for 10 students and then point the name of the first and the last student.
	(b)	What is the role of dynamic memory allocation
		Explain the dynamic memory allocation functions. 7
	(c)	Explain the following: 7
		(i) Linked List
		(ii) Enum Declarations
		Unit—V
5.	(a)	What do you understand by error handling? How to use in program? Explain with any <i>one</i> program.

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- (b) What is the role of Header file in C language? Explain any *two* header files.
- (c) Explain the following:

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- (i) Input and output streams
- (ii) Unbuffered I/O Random Access

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