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.

4. (a) Write a program I mit tim Uto define a structure student

- 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 ad mind (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: 7
		(i) Arrays of Pointer
		(ii) Passing Arrays as Function Arguments
		M. A.M. Ser (Tourth Semester)
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 one C program that using recurion function. 7
	(c)	Explain the following:
		(i) Macro substitution
IA		(ii) Line control
		questions carry edVi—tinU
	(a)	students and then point the name of the first and the
	(b)	What is the role of dynamic memory allocation.
	(0)	Explain the dynamic memory allocation functions. 7
	(c)	Explain the following: 7
		(i) Linked List
		(ii) Enum Declarations
	nisla	2. (a) What do you uV—tinUd by pointer ? Ex
	(a)	What do you understand by error handling? How to

use in program? Explain with any one program. 7

(b)	Wha	it is the role of Header	file	in	C	language	?
	Exp	lain any two header files.					7
(c)	Explain the following:						
	(i)	Input and output streams					
	(ii)	Unbuffered I/O Random	Acc	ess			