

## CC345

Dual Degree-B.Sc. (Hons.) Mathematics-M. Sc. (Mathematics)

EXAMINATION, 2020

(Third Semester)

(B Scheme) (Re-appear)

(B. Sc. (Hons.) M. Sc. (Mathematics))

MAT319H

PROGRAMMING IN C

Time : 2½ Hours]

[Maximum Marks : 75

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Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

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**Note :** Attempt *Four* questions in all. All questions carry equal marks.

1. (a) What is the use of flow chart ? Draw the flow chart for finding the roots of a quadratic equation.  
(b) List the different types of operators supported by C language. Give some examples of each.
2. (a) What do you mean by data type casting ? Show with the help of some examples.  
(b) What are different types of errors which can be committed by the programmers ? How are they handled ?
3. (a) What are the different bitwise operators supported by C language ? Explain each with example.  
(b) Write a recursive program to calculate the greatest common divisor (GCD).

4. What are different loop control statement supported by C language ? Explain each with syntax and example.
5. Write a program in C to multiply two matrices.
6. (a) Write a program to concatenate two strings entered by user.  
(b) How Union is different from structure ? Show with suitable example.
7. Write a program in C language, using functions to print the sum, product and difference of two integers entered by user depending on the choice entered by user.
8. Write a program in C language, that will read an integer from keyboard and will display its address in memory.