

M.A./M.Sc. Semester I Examination, 2019 (CBCS) under DDE

Subject: Mathematics

Course: MMATG – 110(C-Programming Practical)

Time: 1 Hour

Full Marks: 20

[Use the Front Page of the answer sheet as available from the website. The name of the file (merged into a single file in pdf format, including the Front Page) to be uploaded must follow the prescription - **roll no**(numeric part only)_**MMATG110P**.pdf . For example, if your Roll No. is 201920005, the file name must be **201920005_MMATG110P.pdf**. Your answer should be limited to two A4 size pages, excluding the Front Page]

Answer any **one** question. Only **first** answer will be evaluated.

1. Write down working formula, algorithm and a brief c-programming to find the roots of the quadratic equation, $2x^2 + x + 4 = 0$.
2. Write down working formula, algorithm and a brief c-programming to find the sum of two given matrices, A and B, where

$$A = \begin{bmatrix} 1 & 2.2 & 2.1 & 5.1 \\ 5 & 2.5 & 6.1 & 7.1 \\ 4.2 & 3.3 & 3.2 & 4.2 \\ 4.3 & 2.3 & 2.4 & 4 \end{bmatrix}, B = \begin{bmatrix} 1 & 3.2 & 2.1 & 1.1 \\ 5 & 2.5 & 3.1 & 7.1 \\ 1.2 & 3.3 & 4.2 & 4.2 \\ 5.3 & 4.3 & 2.4 & 4.2 \end{bmatrix}.$$