

No. of Printed Pages : 2 **MMT-001(P)(Set-II)**

**M. SC. (MATHEMATICS WITH
APPLICATIONS IN COMPUTER
SCIENCE) [M. SC. (MACS)]**

Term-End Practical Examination

June, 2025

**MMT-001(P)(Set-II) : PROGRAMMING AND
DATA STRUCTURES**

Time : 2 Hours

Maximum Marks : 50

Note : (i) There are **two** questions in this paper, totaling 40 marks.

(ii) Answer both of them.

(iii) The remaining 10 marks are for viva-voce.

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1. Write a program that prompt the user for monthly basic pay and calculates and prints the total salary as the sum of the following :

15

- (i) Monthly basic pay

[2]

(ii) House rent allowance at 30% of basic pay

(iii) Dearness allowance at 48% of basic pay

(iv) Travelling allowance fixed at ₹ 3,200

2. Write a function that solves algebraic equations using bisection method. Use it to find a solution of the equation $x^3 - 5x + 3 = 0$, in a given interval upto three places of decimal. 25

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