

No. of Printed Pages : 1 **MMT-001(P)(Set-I)**

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

**Term-End Practical Examination
December, 2024**

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

Time : 2 Hours

Maximum Marks : 50

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

(ii) *Answer both of them.*

(iii) *Remaining 10 marks are for viva-voce.*

1. Write a C program that finds all primes smaller than a given number and store them in a file. 20
2. Write a program that computes the value of $\tan^{-1}x$ using the power series expansion : 20

$$x - \frac{x^3}{3} + \frac{x^5}{5} - \dots$$

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