

No. of Printed Pages : 1 **MMTE-005(P)(Set-I)**

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

Term-End Practical Examination

December, 2024

MMTE-005(P)(Set-I) : CODING THEORY

Time : $1\frac{1}{2}$ Hours

Maximum Marks : 40

Note : (i) *The question paper has two questions worth 15 marks each.*

(ii) *Attempt both of them.*

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

1. Write a C program for computing the CRC with

CRC polynomial $x^{12} + x^{11} + x^3 + x^2 + x + 1$.

Assume that message length is 8 bit. 15

2. Write a program to find the sum and product

elements in the finite field $\frac{F[x]}{\langle x^5 + x^3 + 1 \rangle}$. 15

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