# M.Sc. (MACS) PROGRAMME

## Term-End Examination

## August, 2011

00275

## MMT-001 (P) : PROGRAMMING AND DATA STRUCTURE

*Time : 2 hours*                    *Maximum Marks : 50*

*Note :    There are **two** questions in this paper totalling **40** marks. Answer **both** of them.  Remaining **10** marks are for viva–voce.*

1.    Write a program in 'C' language that uses arrays    **15**
to multiply two polynomials of degree at most 10.
Use your program to find the product of the
polynomials $x^{10} + x^8 + 2x^7 + x + 9$ and
$x^9 + 2x^6 - 3x^5 + 4x^2 + x + 10$.

2.    Write a program in 'C' language that converts    **25**
expressions in infix notation to postfix notation
using stack.  Use it to convert the expression
$1 + (2*3) - (4/3.0) + 6*7$.

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