

M.Sc. (MACS) PROGRAMME**Term-End Examination**

June, 2013

**MMT-001 (P) : PROGRAM AND DATA
STRUCTURE**

Time : 2 hours

Maximum Marks : 50

Note : There are two (2) questions in this paper, totalling 40 marks. Answer both of them. Remaining 10 marks are for the viva-voce.

1. Write a program in 'C' language to compute the sum of the first 'n' terms of $\cos(x)$ series. 15

$$\cos(x) : 1 - \frac{x^2}{2!} + \frac{x^4}{4!} - \dots$$

2. Write a program in 'C' language to create a double linked list of a set of names and do the following by writing a separate function for each. 25
- (a) Insert a node at beginning, middle and end.
 - (b) Delete a node at, any given position.
 - (c) Display the names in the list.