No. of Printed Pages: 1

MMT-001 (P)

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

Term-End Practical Examination

00388

June, 2014

MMT-001 (P): PROGRAMMING AND DATA STRUCTURES

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 the viva-voce.

1. Write a C program that does the following:

20

- Declare a structure called 'time' having three members 'hours', 'minutes' and 'seconds'.
- Declare two variables of type 'time'.
- Read the values of these variables from keyboard.
- Add these two 'time' variables.
- Display the result in HH: MM: SS format.
- 2. Write a C program that implements a singly linked list of Indian cities with their population (in millions). The program should include the following operations: 20
 - Create a node for the list.
 - Add a node at the end of the list.
 - Display the contents of the list.