# MCA (Revised)

## Term-End Practical Examination

### December, 2010

00093

## MCSL-036 : LABORATORY COURSE (FOR OOAD, SOFTWARE ENGINEERING AND ACCOUNTANCY AND FINANCIAL MANAGEMENT)

*Time allowed : 3 hours*          *Maximum Marks : 100*

*Note :*    *There are **three sections** in this paper. Each section is for **one** hour, including the viva-voce. Attempt only that part(s) in which you are not successful as yet. Answer **all** the questions in each section. Section – A and Section – B carry 25 marks for the problem, and viva-voce is for 5 marks, respectively. Section – C carries 30 marks for the problem, and viva-voce for 10 marks. Assumptions can be made wherever necessary.*

## SECTION – A

### (Object Oriented Analysis and Design)

A manufacturing department wants to computerize activities related to scheduling of meetings. There may be different kinds of meetings as sales/purchase inventory management, administrative and Finance. There is a list of members along with their address and other details for different meetings. The list should be maintained in a database of a system. members are distinct in different meetings scheduling of meetings needs booking of conference room, fixing date time and members are informed through an e-mail. Parallel meeting are not permitted

Perform the following activities :

(a)    Draw the use cases, define all the classes and also draw an object diagram.     **15**

(b)    Draw the sequences and collaborate diagram     **10**

## SECTION – B

## (Software Engineering)

1. Perform the following tasks for the problem defined in Section – A

   (a) Develop SRS                                                              7

   (b) Draw DFDs of level 0 and level 1                                         8

   (c) Draw an E-R diagram, its related tables and show integrity constraints.  10

## SECTION – C

### (Accountancy and Financial Management)

1. Post the following transactions of a Grocery store to prepare the journal, ledger and     **30**
   trial balance.

| November 2010 | Transaction | Amount Rs. |
|---|---|---|
| 3 | Started the business with cash | 6,00,000 |
| 6 | Deposited in the bank | 1,50,000 |
| 9 | Purchased furniture items for the store in cash | 50,000 |
| 12 | Purchased goods for the store in cash | 2,00,000 |
| 15 | Sold goods for cash | 1,00,000 |
| 18 | Sold good on credit | 80,000 |
| 21 | Paid tax | 25,000 |
| 28 | Paid salary | 75,000 |
| 30 | Paid rent | 60,000 |

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