

MCA (Revised)

Term-End Practical Examination

02126

June, 2011

**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 *viva-voce*. Attempt only that part (s) in which you are not successful as yet.*

SECTION-A

(OOAD)

1. X and Y are starting a bed and breakfast service in a small town. They will have four rooms for guests. They want a system to manage the reservation and to monitor expenses and profits. When a potential customer calls for reservation, they will check the calendar and if there is a vacancy, they will enter the customer name, address, phone number, dates, agreed upon price, credit card number and room number (s). Reservation must be guaranteed by 1 day's payment. Reservation will be held without guarantee for an agreed upon time. If not guaranteed by that date, the reservation will be dropped.

Perform the following tasks :

- (a) Draw the use case, define all the classes and draw an object diagram. 15
- (b) Draw the sequences and collaborative diagram. 10

SECTION-B
(SOFTWARE ENGINEERING)

1. Perform the following tasks for the problem defined in the previous section :
 - (a) Draw DFDs of level 0 and level 1. 7
 - (b) Write pseudocode for at least 2 processes defined at level 1. 8
 - (c) Draw an E-R diagram its related tables showing its integrity constraints. 10

SECTION-C

(ACCOUNTANCY AND FINANCIAL MANAGEMENT)

30

1. Post the following transactions of a restaurant to prepare the journal ledger and trial balance.

Jan - 2011	Transaction	Amount
5	Started the business with cash	2,50,000
10	Deposited in the bank	50,000
15	Purchased tables and chairs	80,000
20	Purchased Freeze	30,000
22	Purchased goods for cash	50,000
25	Sold food items for cash	60,000
27	Sold food items for credits	70,000
29	Paid salary	55,000
31	Paid rent	40,000