

**MCA (Revised)**  
**Term-End Practical Examination**  
**December, 2007**

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

Time allowed : 3 hours

Maximum Marks : 100

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**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.

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**SECTION A : Object Oriented Analysis and Design**

1. A tourist company has many branches across the country. It also has tie-up with top hotels, restaurants and holiday-resorts to provide different types of services to its customers (both foreign and national). It also provides on-line registration facility. The payment can be accepted through a credit card, cheque, as well as cash (both national and foreign currency).
- (i) Draw the use cases and define all the classes for the problem stated above. 15
- (ii) Draw the sequences and collaboration diagrams for the problem given in Question 1. 10

## SECTION B : Software Engineering

1. (i) Develop SRS for the problem stated in Q.1 of Section A. 7
- (ii) Draw the following diagrams for the problem given in Q.1 of Section A.
  - (a) DFDs upto two levels 9
  - (b) ER diagram and its related tables. 9

### SECTION C : Accountancy and Financial Management

1. Post the following transactions of a retail company to prepare the journal, ledger and trial balance :

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2008 February	Transactions	Rs.
1	Started the retail business with cash	1,15,000
2	Deposited in the bank	92,000
3	Decoration item purchased for cash	15,000
4	Purchased goods for cash	13,000
9	Purchased goods on credit	12,000
15	Goods sold for cash	10,000
25	Goods sold on credit	11,000
26	Received cash	16,000
27	Paid rent	12,000
28	Paid salary	25,000

