

**MCA (Revised)**  
**Term-End Practical Examination**  
**June, 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. Draw the use cases and define all the classes for on-line booking of plane tickets. Make necessary assumptions. 15
  
2. Draw the sequence and collaboration diagram for the above problem (Q. 1). 10

## **SECTION B : Software Engineering**

- 1.** Develop the SRS for online booking of plane tickets. Make necessary assumptions. 7
- 2.** Draw the following diagrams for online booking of plane tickets :
  - (a) DFDs upto two levels 9
  - (b) ER diagrams 9

### SECTION C : Accountancy and Financial Management

1. Post the following transactions of a s/w company to prepare the journal :

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2007 March	Transactions	Rs.
1	Started business with cash	5,000
2	Deposited in the bank	3,000
3	Furniture purchased (cash)	2,500
5	Purchased goods for cash	2,100
6	Old furniture sold for cash	4,000
7	Purchased goods from a shop	3,000
15	Paid taxes in cash	2,500
16	Goods sold to Shyam for cash	3,500
18	Goods sold on credit	3,200
30	Bank interests credited	2,700
30	Paid rent	3,300
30	Paid salary	3,500

