

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

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

1. Design the use cases and define all the cases for "on-line payment of electricity bills". Make necessary assumptions. 15
2. Draw the sequence and collaboration diagram for the problem given in question 1 above. 10

SECTION B : Software Engineering

- 1.** Develop the SRS for on-line payment of electricity bills. Make necessary assumptions. 7
- 2.** Draw the following diagrams for on-line payment of electricity bills :
 - (a) DFDs upto two levels 9
 - (b) ER diagrams 9

SECTION C : Accountancy and Financial Management

1. Post the following transactions of a car servicing company to prepare the journal, ledger and trial balance using Tally (or any other similar software) :

30

2007 April	Transactions	Rs.
1	Started business with cash	20,000
2	Deposited in the Bank	14,000
3	Furniture purchased for office for cash	2,500
4	Purchased goods for cash	6,000
8	Old goods sold for cash	6,000
15	Paid taxes in cash	3,000
28	Received cash from Mr. Z	25,000
30	Bank interest credited	4,000
30	Paid rent	6,000
30	Paid salary	6,000

