

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

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. ABC Bank maintains several accounts : Current a/c, Savings a/c, Loan a/c etc. It operates a number of branches across the country and outside the country. It also offers ATM facility. A client can have multiple as well as joint account facilities.
- (i) Draw the use cases and define all the classes for the problem stated above. 15
- (ii) Draw the sequence and collaboration diagram for the above problem. 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 related tables 9

SECTION C : Accountancy and Financial Management

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

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2008 March	Transactions	Rs.
1	Started Business with cash	25,000
2	Deposited in the Bank	23,000
3	Furniture purchased (cash)	22,500
5	Purchased goods for cash	22,100
6	Old furniture sold for cash	30,000
7	Purchased good from a shop	26,000
15	Paid taxes in cash	22,500
16	Goods sold for cash	24,000
18	Goods sold on credit	20,000
30	Bank interests credited	15,000
31	Paid rent	15,000
31	Paid salary	40,000

