

## MCA (Revised)

Term-End Practical Examination

00033

June, 2010

**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 social networking site needed to be developed. Only college/university students are allowed to be registered. Each user of the system should be able to send e-mail to anyone if he has agreed to become his friend. He can post his own photograph, his friend photograph and also send gifts electronically. There should be provision for saving, formating e-mail as well as printing them. The system should also prompt the user there is an e-mail for him/her.

Perform the following tasks :

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

**SECTION - B**  
**Software Engineering**

1. Perform the following tasks for the problem defined in Section - A.
  - (a) Develop SRS 7
  - (b) Draw DFDs of level 0 and level 1 8
  - (c) Draw an E - R diagram and its related tables into integrity constraints. 10

**SECTION - C**

**Accountancy and Financial Management**

1. Post the following transactions of a company to prepare the journal, ledger and trial balance. 30

March 2010	Transactions	Amount (Rs.)
5	Started the business with cash	10,00,000
9	Deposited in the bank	5,00,000
13	Purchased furniture items for cash	1,00,000
17	Purchased goods for cash	1,00,000
21	Goods sold for cash	50,000
23	Goods sold on credit	80,000
26	Received cash	60,000
27	Paid rent	90,000
31	Paid salary	2,00,000