

MCA (Revised)
Term-End Practical Examination
December, 2009

05261

**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

A list of employees with their basic pay is sent to a clerk. He calculates the gross pay using standard allowances, which are known for each pay slab. Deduction statements, such as loan repayments, subscription to association, etc., are also sent to another clerk who matches these slips with the slips of gross pay and calculates net pay. This slip is used by a third clerk to write out pay cheques for each employee and sent to respective employee.

Perform the following tasks :

- (a) Draw the use cases and define all the classes for the problem stated above. 15
- (b) Draw the sequences and collaboration diagram. 10

SECTION - B : Software Engineering

- 1.** Perform the following tasks for the problem stated in Section - A.
 - (a) Develop SRS. **7**
 - (b) Draw DFDs upto two levels. **9**
 - (c) Draw an ER diagram and related tables with integrity constraints. **9**

SECTION - C : Accountancy and Financial Management

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

2009 Jan	Transactions	Rs.
5	Started the business with cash	10,00,000
10	Deposited in the bank	2,00,000
15	Furniture purchased for cash	50,000
20	Purchased goods on credit	50,000
25	Goods sold for cash	30,000
27	Received cash	60,000
28	Paid rent	40,000
31	Paid salary	90,000

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