

MCA (Revised)
Term-End Practical Examination
December, 2008

**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 Company is an authorized agent for booking airlines tickets. The company wants a computerized system to manage booking, cancellation and delivery of tickets to passengers.

When a passenger calls for booking/cancellation of a ticket, the dealing clerk verifies the booking request of passenger and books a ticket if the seat is available and delivers the ticket within 24 hours to a passenger through a courier. If a seat is not available on that day, the passenger is informed electronically.

The system will answer all queries related to booking/cancellation of tickets of passenger by the passenger's name and date of booking/cancellation.

The system also generates different kinds of reports indicating the number of tickets sold, cancelled, pending payments on a daily basis.

Perform the following tasks :

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| (i) Draw the use case diagram, identify all the classes and draw an object diagram. | 15 |
| (ii) Draw the sequence and collaboration diagram. | 10 |

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SECTION C : Accountancy and Financial Management

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

July 2007	Transactions	Amount (Rs.)
1	Started the business with cash	5,00,000
2	Deposited in the bank	1,50,000
10	Purchased raw materials for cash	1,00,000
15	Purchased equipment on credit	2,00,000
20	Goods sold for cash	1,50,000
25	Goods sold on credit	1,00,000
26	Received cash	1,00,000
30	Paid salary	1,60,000

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