

**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

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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 newspaper publishing company publishes daily newspaper in English and regional languages. It has branches all over the country. It has in a panel full-time as well as part-time correspondents. It offers monthly as well as yearly subscription. It also offers online editing of the papers which can be accessed by the subscribers.
- (i) Design the use cases and define all the classes for the problem stated above. 15
- (ii) Draw the sequence and collaboration diagram for the problem given in Q.1 above. 10

## SECTION B : Software Engineering

1. (i) Develop the SRS for the problem given in Q.1 of Section A. 7
- (ii) Draw the following diagrams for the problem stated in Q.1 (Section A) :
  - (a) DFDs upto two levels 9
  - (b) ER diagrams and its related tables 9

### SECTION C : Accountancy and Financial Management

1. Post the following transactions of a car rental company to prepare the journal, ledger and trial balance using Tally :

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2008 April	Transactions	Rs.
1	Started business with cash	20,000
2	Deposited in the Bank	15,000
3	Furniture purchased for office for cash	15,000
5	Purchased goods for cash	16,000
8	Old goods sold for cash	18,000
15	Paid taxes in cash	10,000
20	Received cash	20,000
25	Bank interest credited	8,000
30	Paid rent	21,000
31	Paid salary	25,000

