

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. A fast food chain has many branches across the country. It provides different types of services : breakfast, lunch and dinner. It has full-time and part-time staff. Part-time staff are paid on number of hours they have worked. It also offers discount on food items during the festivals. It also accepts the amount through credit card.
- (i) Draw the use cases and define all the classes for the above problem. 15
- (ii) Draw the sequence and collaboration diagram for the problem given 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 and tables for the problem specified in Q.1 of Section A.
 - (a) DFDs upto two levels 9
 - (b) ER diagrams and related tables 9

SECTION C : Accountancy and Financial Management

1. Post the following transactions of ABC Co. to prepare the journal, ledger and trial balance using Tally (or for any other similar s/w).

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January 2008	Transactions	Rs.
1	Started business with cash	13,000
2	Deposited in the bank	12,000
3	Office equipment purchased for cash	11,500
4	Purchased goods for cash	12,500
10	Old furniture sold for cash	11,500
11	Purchased goods from a shop (on credit)	12,000
15	Paid taxes in cash	14,000
16	Goods sold to Z & Co. for cash	16,300
24	Goods sold on credit	13,400
25	Received cash	16,400
30	Bank interest credited	12,800
30	Paid rent	12,800
31	Paid salary	16,000

