

MCA (Revised)

Term-End Practical Examination

03544

June, 2011

**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.*

**SECTION-A
(OOAD)**

1. The central examination board wants to computerize its examination process for admission to engineering institutions for 10+2 pass students. The system should maintain the schedule for advertisement in the newspaper, processing the application for sending the admit card, to students, identifying the centres for conducting the examination and finally announcing the result in newspaper as well as on-line. It also maintains appropriate databases.

Perform the following tasks :

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

SECTION-B
(SOFTWARE ENGINEERING)

1. Perform the following tasks for the problem defined in the previous section :
 - (a) Draw DFDs of level 0 and level 1. 7
 - (b) Write pseudocodes for at least 2 processes defined at level 1. 8
 - (c) Draw E - R diagram, its related tables showing its integrity constraints. 10

SECTION-C

(ACCOUNTANCY AND FINANCIAL MANAGEMENT)

1. Post the following transaction of a furniture shop to prepare the journal ledger and trial balance. 30

March - 2011	Transaction	Amount
3	Started the business with cash	3,00,000
5	Deposited in the bank	70,000
7	Purchased furniture for cash	1,00,000
10	Purchased furniture on credits	1,00,000
15	Sold furniture for cash	90,000
20	Sold furniture on credit	60,000
28	Paid salary	50,000
30	Paid rent	30,000