

MCA (Revised)
Term-End Practical Examination
June, 2010

02702

**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 system for publishing electronic journals / magazines of different branches of engineering is needed. Only those who have valid subscription to the site are allowed to access. An organization which have many people to access the web site but purchased only one license, one should not be allowed to access in site for more than 2 hours. If someone has opened the site but not active, the control should go to the next one in queue. There should be provision of searching an article by author's name as well as by article's name. There should be also a provision for sending comments against any article as well as printing them.

Perform the following tasks :

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

SECTION - B
Software Engineering

1. Perform the following tasks for the problem defined in section - A
 - (a) Develop SRS 7
 - (b) Draw DFD, of level 0 and level 1 8
 - (c) Draw an E - R diagram and its related tables with integrity constraints 10

SECTION - C

Accountancy and Financial Management

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

April 2010	Transaction	Amount (Rs.)
5	Started the business with cash	8,00,000
8	Deposited in the bank	2,00,000
12	Items purchased for cash	90,000
14	Goods sold for cash	80,000
19	Good sold on credit	90,000
22	Received cash	1,50,000
28	Paid rent	1,00,000
30	Paid salary	2,00,000