

MASTER OF COMPUTER APPLICATIONS (Revised)
(MCA)

Term-End Practical Examination

June, 2015

**MCSL-036(P)/S2 : LAB COURSE (FOR OOAD, SOFTWARE ENGINEERING,
ACCOUNTANCY AND FINANCIAL MANAGEMENT)**

Time : 3 Hours

Maximum Marks : 100

- Note :**
- (i) *There are **three** sections in this paper.*
 - (ii) *Each section is for one hour duration including the viva-voce.*
 - (iii) *Attempt only that part(s) in which you are **not successful as yet**.*
 - (iv) *Answer **all** the questions in each section.*
 - (v) *The remaining marks are for viva-voce.*

SECTION A
(OOAD)

1. Examination procedure in a particular university is as follows : The schedules for conducting term-end examinations in June and December are announced for all the programs, the last date for receipt of examination form, the required fee amount in the form of a bank draft, and the list of examination centres where examinations are to be conducted for both theory and practicals. The concerned division verifies the examination form (whether the candidates are eligible or not, whether they have paid the semester fee, whether they have submitted assignment, etc.) and issues a hall ticket through a post at least 15 days in advance. The process is manual which requires to be computerized so that students should submit the examination form on-line and payment should be done through a credit card/debit card only.

You are required to do 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)

2. 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 two processes defined at level 1. 8
 - (c) Draw an E – R diagram, its related tables, showing its integrity constraints. 10

SECTION C

(Accountancy and Financial Management)

3. Post the following transactions of a furniture shop to prepare the Journal, Ledger and Trial Balance :

30

March 2015	Transaction	Amount (₹)
5	Starting amount for doing business	1,50,000
8	Deposited in the bank	30,000
12	Purchased furniture	50,000
15	Purchased computers	40,000
20	Spent in decorating shops	30,000
25	Sold furniture	70,000
30	Paid salary to staff	10,000
31	Paid rent	10,000