

MASTER OF COMPUTER APPLICATIONS (Revised)**(MCA)****Term-End Practical Examination****June, 2015**

02528

**MCSL-036(P)/S3 : LAB COURSE (FOR OOAD, SOFTWARE ENGINEERING,
ACCOUNTANCY AND FINANCIAL MANAGEMENT)***Time : 3 Hours**Maximum Marks : 100*

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- 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.*
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SECTION A**(OOAD)**

1. A magazine is published monthly and is sent to its subscribers by post. Two months before the expiry of subscription, a reminder is sent to the subscribers. If subscription is not received within a month, another reminder is sent by post. If renewal subscription is not received upto two weeks before the expiry of the subscription, the subscriber's name is removed from the mailing list and then the subscriber is informed. The process is still manual. You are required to make subscription and reminder and the status of subscription on-line to reduce the manual process.

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)

2. Perform the following tasks for the problem defined in the previous section (Section A) :
- (a) Draw the 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 restaurant to prepare the Journal, Ledger and Trial Balance.

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Jan. 2015	Transaction	Amount (₹)
5	Started the business with cash	4,00,000
10	Deposited in the bank	1,00,000
15	Purchased chairs and tables	1,00,000
18	Purchased other kitchen items on credit	60,000
20	Purchased food items	40,000
25	Sold fast-food items	30,000
28	Paid salary	30,000
30	Paid rent	20,000