

MASTER OF COMPUTER APPLICATIONS (Revised)
(MCA)

Term-End Practical Examination

02943

December, 2016

**MCSL-036(P)/S2 : 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.*
 - (vi) *Viva-voce marks for Sections A, B and C are 5, 5 and 10 respectively.*
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SECTION A

(Object Oriented Analysis and Design)

1. One of the important tasks of the Hotel Management System is to keep track of reservation and room availability, confirm reservation and reject request for reservation; when a customer checks out, the amount owed is displayed, records payment and generates receipt.

You are required to do the following tasks :

- (a) Draw the use case diagram. 7
- (b) Define all the classes and draw the class diagram. 8
- (c) Draw the sequence and collaboration diagram. 10

SECTION B

(Software Engineering)

2. Perform the following activities for the problem defined in the previous section :
- (a) Draw the DFDs of level 0 and level 1. 7
 - (b) Write pseudocodes for any two processes 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 chemist shop to prepare the Journal, Ledger and Trial Balance :

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August 2016	Transaction	Amount (in INR)
5th	Started the business with cash	1,50,000
10th	Deposited in the bank	50,000
15th	Purchased furniture and computer	70,000
16th	Purchased medicines on credit	80,000
20th	Purchased fridge on credit	30,000
23rd	Sold medicines for cash	20,000
25th	Paid rent	15,000
30th	Paid salary to staff	20,000