MASTER OF COMPUTER APPLICATIONS (Revised)
(MCA)

Term-End Practical Examination

00303

December, 2017

MCSL-036(P)/S1 : 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)   *Viva-voce marks for Sections A, B and C are 5, 5 and 10 respectively.*

SECTION A

(Object Oriented Analysis and Design)

1. A rental website provides online services for booking a house on a rental basis. It maintains a record of accommodations all over the place in different categories of price range. The user submits the online form after selecting the house which is forwarded by the administrator to the owner of the house. Once the owner agrees, the online payment is made. There is a provision of making a complaint in case the agreement is not fulfilled by the owner of the house. There is also a feedback system given by both the parties.

Perform the following tasks :

(a) Draw the Use Case diagram of the system.   5

(b) Define all the classes and draw the class diagram.   10

(c) Draw the sequence and collaboration diagrams.   10

SECTION B

(Software Engineering)

2. Perform the following activities for the problem described in Q1 (Section A) :

(a) Draw the DFDs at level 0 and level 1. 7

(b) Write pseudocodes for any two processes defined at level 1 of the DFD. 8

(c) Draw an E-R diagram, convert the E-R diagram into relational tables showing the integrity constraints. 10

SECTION C

(Accountancy and Financial Management)

3. Post the following transactions for a rental website company and prepare the Journal, Ledger and Trial Balance : *30*

July 2017	Transaction	Amount (INR)
5th	Started the business with cash	10,00,000
10th	Deposited in the bank	5,00,000
13th	Purchased computer, s/w, peripheral devices on credit	4,00,000
15th	Purchased furniture on cash	1,50,000
17th	Advertisement of the company in a newspaper (cash)	25,000
25th	Earned through business	3,00,000
28th	Salary to staff	1,50,000
30th	Paid rent	40,000

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