MASTER OF COMPUTER APPLICATIONS (Revised)

(MCA)

Term-End Practical Examination

01653

December, 2017

MCSL-036(P)/S3 : 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.   To schedule a meeting, there are many tasks required to be performed : Fixing date and time, booking a meeting room, purchase stationery, booking tickets for outside experts, sending mails to members who are attending the meeting for their confirmation to attend the meeting, arrangement for accommodation for outside members in the guest house, preparing a budget for the meeting and getting approval from the higher authority. The department wants to computerize all these activities to have proper utilisation of resources and control event expenses.

Perform the following tasks :

(a)   Draw the use case diagram.   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 description given in Q1 (Section A) :

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

   (b)   Write pseudocode for one process identified at level 1.   *8*

   (c)   Draw an E-R diagram and its related tables and show the integrity constraints.   *10*

SECTION C

(Accountancy and Financial Management)

3. Post the following transactions related to scheduling of a meeting to prepare the Journal, Ledger and Trial Balance : *30*

Dec 2017	Transaction	Amount (INR)
5th	Budget allocated for meeting in a year	5,00,000
10th	Purchased tickets for experts	50,000
15th	Purchased stationery	10,000
16th	Lunch and Dinner	60,000
17th	Sitting fee	10,000
18th	Room charges	5,000
18th	Taxi charges	5,000
19th	TA and DA	10,000

———