MASTER OF COMPUTER APPLICATION (MCA)

Term-End Practical Examination

00688

June, 2013

MCSL-036 : LABORATORY COURSE (FOR OBJECT ORIENTED ANALYSIS AND DESIGN, SOFTWARE ENGINEERING AND ACCOUNTANCY AND FINANCIAL MANAGEMENT)

Time allowed : 3 hours *Maximum Marks : 100*

Note : *There are **three** sections in this paper. Each section is for **one hour** duration including **viva- voce**. Attempt only those section(s) in which you are not successful as yet. Please note that remaining marks are for the **viva-voce** of the sections.*

SECTION-A

(OBJECT ORIENTED ANALYSIS AND DESIGN)

1. A University like IGNOU sends course material to its students. Each subject (course) consists of several blocks and each block consists of several units. A student can register either for a semester of a programme or for a number of courses of a programme. The student has to pay fee for registration. The students are sent the material of the courses for which they have duly registered. Perform the following activities for the description given above :

    (a) Draw a use case diagram   5

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

    (c) Draw the sequence and collaboration diagram Make suitable assumptions, if   10
    any

SECTION-B
(SOFTWARE ENGINEERING)

1. Perform the following activities for the description given in "Section-A" (Q1)

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

   (b) Write pseudo code for at least two processes defined in level 1 DFD   8

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

SECTION-C

(ACCOUNTANCY AND FINANCIAL MANAGEMENT)

1. Post the following transactions after creating a new company "Mohan and MohanLal".   30
   Also prepare the journal ledger and trial balance for the company.

June 2013	Transactions	Amount (INR)
1st	Mohan and MohanLal started business with cash	20,000
2nd	Opened a new A/c in the Bank using cash	5,000
3rd	Purchase office goods for cash	2,000
7th	Purchase goods for business on credit	5,000
10th	Goods sold to "A" on credit	5,000
15th	Goods sold to "B" on cash	2,000
17th	Received cash from "A"	3,000
30th	Paid Rent	1,000
30th	Paid Salary	5,000

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