MCA (Revised)

Term-End Practical Examination 01852

June, 2010

MCSL-036 : LABORATORY COURSE (FOR OOAD, 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, including the viva-voce. Attempt only that part(s) in which you are not successful as yet. Answer **all** the questions in each section. Section – A and Section – B carry 25 marks for the problem, and viva-voce is for 5 marks, respectively. Section – C carries 30 marks for the problem, and **viva-voce** for 10 marks. Assumptions can be made wherever necessary.*

SECTION – A

Object Oriented Analysis and Design

1. A medical shop wants to automate its inventory on day to day basis. The system records all items and its quantities that a customer purchases : It should also record arriving materials from suppliers as wall as losses of items due to spoilage. After purchase of items worth 6000/- by a customer, he gets 400/- worth medicines free of cost. The system should inform the customer through mailing facility. The system should also generate daily/weekly report about the status of inventory.

   Perform the following tasks :

   (a) Draw the use cases, define all the classes and draw an object diagram. **15**

   (b) Draw the sequences and collaboration diagram. **10**

SECTION – B

Software Engineering

1. Perform the following tasks for the problems defined in Section – A.

    (a) Develop SRS.   **7**

    (b) Draw DFDs of level 0 and level 1   **8**

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

SECTION – C

Accountancy and Financial Management

1. Post the following transaction of a college to prepare the journal ledger and trial balance. **30**

Feb 2010	Transactions	Amount (Rs.)
5	Fee collection	10,00,000
9	Deposited in the bank	5,00,000
13	Purchased furniture items	1,00,000
16	Purchased books	1,00,000
20	Organized sports events	1,00,000
25	Late fee collection	50,000
28	Salary	1,50,000

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