MASTER OF COMPUTER APPLICATIONS (MCA) (REVISED) Term-End Practical Examination June, 2025

MCSL-036(Set-III) : 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 of one hour duration including the viva-voce.*

(iii) *Attempt only that Section(s) in which you are not yet successful.*

(iv) *Answer all the questions in each Section.*

(v) *Section A and Section B carry 25 marks each for the problem(s) and 5 marks for viva-voce. Section C carries 30 marks for problem(s) and 10 marks for viva-voce.*

Section—A

(Object Oriented Analysis and Design)

1. An Institution offers Masters, Bachelors and Certificate level courses. Institution is planning to develop an online-Registration System for registering the students in its various programs. For taking admission in a program, an applicant need to upload soft copy of the certificate and other required document along with fee payment. After verification of documents and fee payment status applicant registration is confirmed and acknowledgement of the confirmation is mailed to the applicant. If admission is not confirmed, fee refund process is initiated and the applicant is informed about it.

You are required to do the following for the above mentioned system. Make necessary assumptions.

(i)   Draw usecase diagram.   10

(ii) Draw class diagram.   15

Section—B

(Software Engineering)

2. Perform the following activities for the problem given in Q. 1 in Section A. Make necessary assumptions.

   (a) Draw DFDs of Level 0 and Level 1.   10

   (b) Draw E-R diagram and also, convert E-R diagram into relational tables showing the keys and constraints.   15

Section—C

(Accountancy and Financial Management)

3. Post the following transactions of a Software company to prepare the Journal, Ledger and Trial Balance :   30

October 2023	Transactions	Amount (in INR)
1st	Received payment from a client	25,00,000

3rd	Paid Rent of Office	5,00,000
8th	Paid Salary	15,00,000
25th	Purchased Software	2,00,000
28th	Purchased Laptops	8,00,000
30th	Purchased Stationery	20,000

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