

MCA (Revised)
Term-End Practical Examination

December, 2012

05515

**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 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

(OOAD)

1. BCA students submit project synopsis in the final semester of BCA. A student can submit only one synopsis in a semester. S/he can submit synopsis only in the final year of BCA not before that. The synopsis includes information about guide, project title, software to be used etc. The synopsis are evaluated at the regional centre and results (approved or not approved) is communicated to the students. 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 sequence and collaboration diagram. | 10 |

Make suitable assumptions, if any.

SECTION-B
(SOFTWARE ENGINEERING)

1. Perform the following activities for the description of BCA project synopsis given in the "Section - A" :
 - (a) Draw the DFDs at level 0 and level 1 7
 - (b) Write pseudo codes for at least two processes defined in level 1 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)

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

Dec 2012	Transactions	Amount (INR)
1 st	Started business with cash	10,000
2 nd	Deposit in the bank	1,000
3 rd	Purchased goods for cash	2,000
5 th	Purchased goods from M/s singh on credit	2,000
8 th	Sold goods to M/s Irfan for cash	5,000
15 th	Paid cash to M/s Singh	1,000
20 th	Paid Rent	2,000
30 th	Paid Salary	3,000

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SECTION-A

(OOAD)

1. A study centre schedules classes for the students in Batches. A student is allotted a Batch number for practical sessions. This batch number is also used to schedule theory session. Attendance in practical sessions is compulsory and is duly recorded. A student can appear for the end term practical examination only if s/he has attended 70% or more practical classes. The centre also keeps track of counsellors who take various sessions. 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 any. 10

SECTION-B
(SOFTWARE ENGINEERING)

1. Perform the following activities for the description of study centre given in "Section - A."
 - (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 E-R diagram, convert the E-R diagram into relational tables showing the Integrity constraints. 10

SECTION-C
(ACCOUNTANCY AND FINANCIAL MANAGEMENT)

1. Post the following transaction for a new company. Also prepare the journal ledger and trial balance. 30

Nov 2012	Transactions	Amount (INR)
1 st	Started business with cash	20,000
3 rd	Purcahsed furniture on credit	10,000
5 th	Purchased goods for cash	5,000
7 th	Sold goods to M/s Ayan and Co. on credit	5,000
9 th	Sold goods to M/s Ravi on cash	7,000
12 th	Received cash from M/s Ayan and Co.	3,000
15 th	Paid Rent	3,000
30 th	Paid Salary	6,000

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SECTION-A

(OOAD)

1. A Library maintains information about its members. The membership of the library is of two types - general and special. General members can be issued books for a period of 2 weeks after that a fine of Rs. 1 per day is charged, whereas special members are allowed to retain book for a duration of 2 months. Any member is allowed to take a maximum of 10 books. The membership of every type of members is to be renewed after one year, when the member has to pay fee of Rs. 1000/- .

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 any. | 10 |

SECTION-B
(SOFTWARE ENGINEERING)

1. Perform the following activities for the description of library-members given in "SECTION- A"
 - (a) Draw the DFDs at level 0 and level 1 7
 - (b) Write pseudo codes for at least two processes defined in level 1 DFD. 8
 - (c) Draw an E-R Diagram, convert the E - R diagram to relational tables showing the Integrity constraints. 10

SECTION - C

(ACCOUNTANCY AND FINANCIAL MANAGEMENT)

1. Post the following transactions of a new computer store. Also prepare the journal ledger and trial balance. 30

Nov - 2012	Transactions	Amount (INR)
1 st	Started business with cash	10,00,000
2 nd	Deposited in the Bank	3,00,000
3 rd	Purchased furniture for cash	1,00,000
7 th	Purchase Computers on credit for M/s HHL	3,00,000
12 th	Sold Computers to M/s Anan for cash	5,00,000
15 th	Paid M/s HHL	2,00,000
19 th	Paid M/s HHL	1,00,000
30 th	Paid Rent	1,00,000
30 th	Paid Salary	1,00,000