

**ANNA UNIVERSITY, CHENNAI – 600 025**  
**MCA DEGREE EXAMINATIONS, NOVEMBER 2013**  
**Regulations R-2009**  
**Fifth Semester**  
**MC 9255 – SOFTWARE DEVELOPMENT LAB**

Time: 3 Hrs.

Max. Marks: 100

1.
  - i. Develop an application which enables the user to renew and return the books based on their id number. Also perform the operations that include the availability of books, book details and issued books. (50)
  - ii. Construct the use-case and activity diagrams with valid data. (50)
  
2.
  - i. Design UID for students marks analyzing system. (25)
  - ii. Implement the above application. (50)
  - iii. Draw a suitable class diagram which depicts the relationship among classes.(25)

3.
  - i. Create a menu driven application for Text Editor. It contains File, Edit, Format, View and Help menu. (50)
  - ii. Draw a Use-case diagram and an activity diagram. (50)
  
4.
  - i. Prepare project planning and SRS for inventory management system. (50)
  - ii. Implement the above application with necessary requirements and validate it. (50)
  
5.
  - i. Simulate and implement the parallel processing operation. (50)
  - ii. Draw a sequence diagram with necessary details. (50)

6. i. Consider the Telephone Dictionary which contains the set of customers and their phone numbers. Perform the following operations:

a) Update the existing one. (20)

b) Search the customer record either by using customer name or their phone numbers. Duplication should be avoided. (20)

c) Sort the customer names in an alphabetical order. (10)

ii. Apply testing on it. (50)

7. i. Create and implement a Data Dictionary that enables the user to find the meaning of a particular word along with synonyms and antonyms. (50)

ii. Draw UML Diagrams. (50)