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**DEPARTMENT OF COMPUTER SCIENCE AND  
ENGINEERING**



**ANNA UNIVERSITY, CHENNAI-25.**

**LABORATORY ASSESMENT**

**Fifth Semester –P Batch**

**(Regulation 2018)**

**CS6110 – Object Oriented Analysis and Design**

**Date: 9.11.2023**

**Time: 1 Hour 30 Mins**

**Marks: 25**

**COURSE OUTCOMES**

CO1	Identify and map basic software system requirements in UML
CO2	Express software design with UML diagrams
CO3	Design and implement software systems using OO methodology
CO4	Improve software design using design patterns
CO5	Test the software system developed against the intended requirements

**Answer ALL Questions**

A Library lends books and magazines to members, who are registered in the system. It also maintains the purchase of new books and magazines for the Library. A member can reserve a book or magazine that is not currently available in the library, so that when it is returned or purchased by the library, that person is notified. The library can easily create, replace and delete information about the books, members, and reservations in the system. Book's transactions are stored in the database. The fine list while the member returns the book after the due date must be generated.

1. a). Identify the functional requirements for the above scenario. (4)
- b). Analyze and discover the actors of this system, and depict the interactions between them. (6)
2. a). Model class diagram by identifying class hierarchies, association and composition. (5)
- b). Draw sequence diagram for any one of the use cases identified in question number 1.b. (5)
- c). Draw collaboration diagram for the sequence diagram modeled in question number 2.b. (5)

-----All the Best-----

**Draw the following table in your first page**

**MARK SPLIT-UP**

Q.NO.	COMMENTS	MARK
1. a.		
b.		
2. a		
b.		
c		
Total		