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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING****ANNA UNIVERSITY, CHENNAI-25.****MID SEMESTER EXAMINATION (RETEST)****Fifth Semester –P BATCH****(Regulation 2018)****CS6110 – Object Oriented Analysis and Design****Date: 02.11.2023****Time: 1 Hour 30 Mins****Answer ALL Questions****Marks: 50****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

**BL - Bloom's Taxonomy Levels**

L1- Remembering, L2 – Understanding, L3- Apply, L4 – Analyze, L5- Evaluate, L6- Create

**PART-A (5 x 2 = 10 Marks)**

Q.No	Question	CO Mapping	BL
1	Define Object Oriented analysis & Design	CO1	L1
2	What are the benefits of iterative development?	CO1	L1
3	Differentiate between static and dynamic modeling.	CO2	L2
4	Summarize the benefits of sequence diagram over collaboration diagram.	CO2	L1
5	Define aggregation with an example.	CO2	L1

**Part – B (5 x 8 = 40 Marks)**

Q.No	Question	CO Mapping	BL
6	A Library lends books and magazines to member, who is 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 reservation 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. Analyze and discover the users and actors of this system, and the interactions between them must be depicted.	CO2	L6

7	Explain the different Strategies to find Conceptual classes with examples from Point of Sale case study.	CO2	L2
8	Explain about the phases of Unified Process	CO1	L2
9	<p>Draw the sequence diagram for the following problem and explain the different components used to draw the same. A system to manage the business process of meeting a new client</p> <ul style="list-style-type: none"> <li>(i) A salesperson calls the client and sets up an appointment.</li> <li>(ii) If the appointment is onsite (in the consulting firm's office), corporate technicians prepare conference room for a presentation.</li> <li>(iii) If the appointment is offsite (at the client's office), a consultant prepares a presentation on a laptop.</li> <li>(iv) The consultant and the salesperson meet with the client at the agreed-upon location and time.</li> <li>(v) The salesperson follows up with a letter</li> <li>(vi) If the meeting has resulted in a statement of a problem, the consultant create a proposal and sends it to the client.</li> </ul>	CO2	L4
10	With an example discuss how polymorphism is handled in sequence diagram.	CO2	L3

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