P4-Exam.-09-244

Con. 2855-09.

T.E. (II) Sem III. (R)

Object Oriented Analysis & Design (REVISED COURSE)

3 p.m. to 6 p.m

(3 Hours)

[Total Marks: 100

N.B.: (1) Question No. 1 is con	npulsory.	
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- Attempt any four question out of remaining six questions.
- Make suitable assumptions wherever necessary and state them.
- A library lends books and magazines to members, who are registered in the system. 20 Also it handles the purchase of new titles for the Library. Popular titles are brought in multiple copies. Old books and magazines are removed when they are out of date or in poor condition. A member can reserve a book or magazite that is not currently by the library, that person available in the library, so that when it is returned or purchased is notified. The Library can easily create, update and delete information about the titles. members, loans and reservations in the system. Construct the use case diagram and class diagram for above scenario. Construct a sequence diagram for the use case lend in em (without considering the reservation).
- State UMI dynamic diagrams. Explain (a) in detail with example. 10
 - Construct the class diagram for Cellular (b) 10
- Name and explain in short Five (a) 10
 - What is Usecase Realization? Splain with suitable example. (b) 5
 - What is model? Why do we need to model a problem? Briefly describe static (c) 5 model and dynamic model.
- Explain the following with suitable examples: Association, Aggregation, Multiplicity, 10 (a) Generalization No. icability.
 - (b) Explain bounda ass, entity class and control class with UML notations. 10
- Explain object oriented metrics and testing. 5. (a) 10
 - 10 (b) Explain different types of coupling and cohesion.
- How deployment diagrams are useful in modeling a fully distributed system? 6. (a) 10
 - (b) State and explain various steps in 00 design process. 10
- 7. Construct the activity diagram for trading system which should take care of sales 10 (a) information of the company and must analyze the potential of trade.
 - (b) Construct the Use case diagram for the above scenario. 10