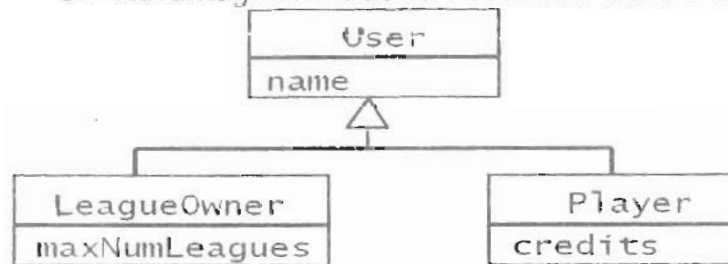


(3 Hours)

[Total Marks : 100

- Q1 For Hospital Management Information System: (20)
- Write down the functional and non-functional requirement.
 - Draw Use Case Diagram.
 - Draw Class Diagram.

- Q2 A) Realized Inheritance to database table for the given model. (12)
- Do Vertical Mapping.
 - Do Horizontal Mapping.
 - Advantage and tradeoff between these two methods.



- Q2 B) Following is the Bidirectional many-to-many association - Object design model before transformation. (8)



Write Java code after transformation for Mapping Association.

- Q3 A) Explain in detail about different levels of CMM with their characteristics. (10)
- Q3 B) Explain all phases of the SDLC. (10)
- Q4 A) Explain with an example Cohesion and Coupling. (10)
- Q4 B) Explain in detail RAD software life cycle model. (10)
- Q5 A) Explain and compare FTR and Walkthrough. (10)
- Q5 B) What is SCM? Explain in detail Software Configuration Item identification. (10)
- Q6 A) Compare Forward Engineering, Reverse Engineering and Re-Engineering. (10)
- Q6 B) Explain in detail COCOMO model. (10)
- Q7) Short Notes on any two: (20)
- Integration Testing
 - Types of Maintenance
 - Design Pattern
 - Risk Management