

ME INFORMATION TECHNOLOGY FIRST YEAR SECOND SEMESTER EXAMINATION  
2025

## OBJECT ORIENTED SYSTEMS

Full Marks :100

Time: 3 Hrs

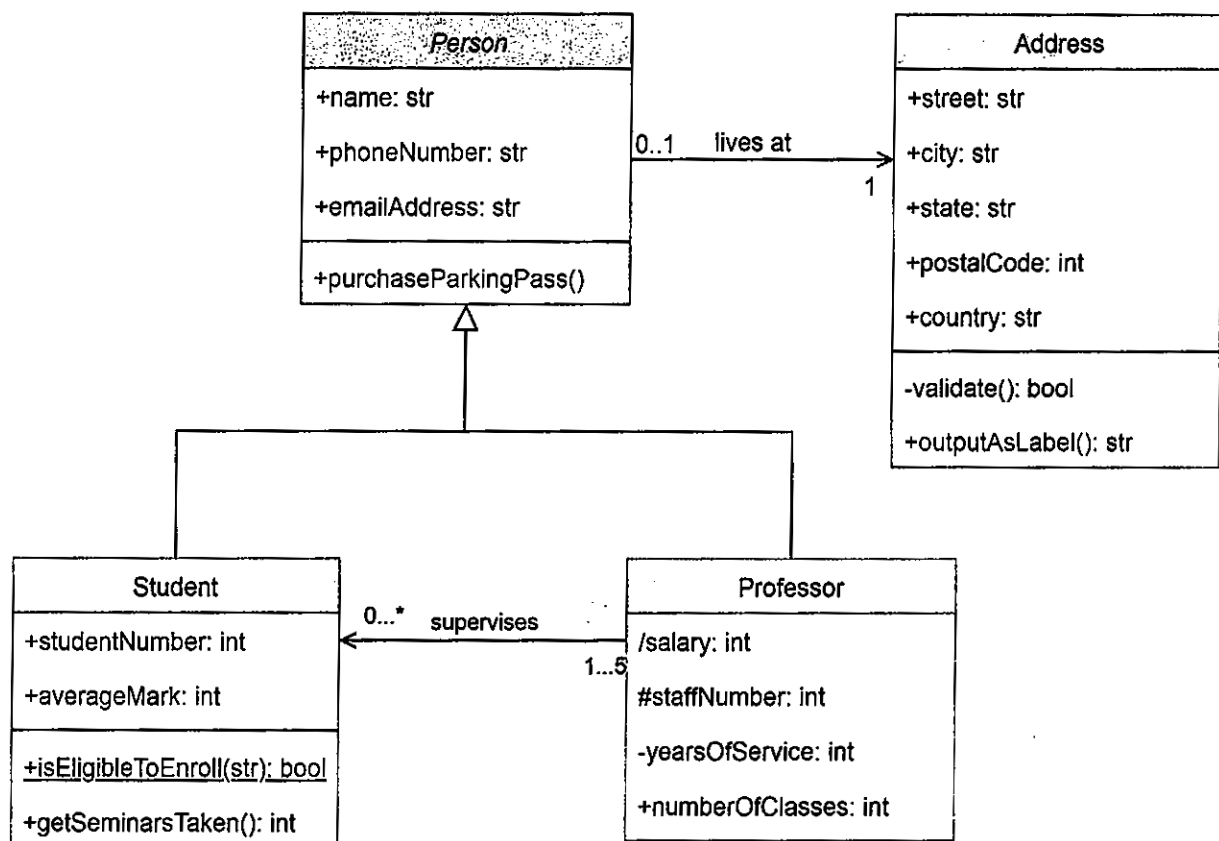
**CO1. (20)** A. Explain the Life cycle for object oriented models. (7)

B. What are the basic features of an object oriented model-explain briefly? Relate them with the different stages of life cycle. (4+5)

C. How does an object oriented model ensure modularity of the system ? (4)

**CO2. (30)** A. What is the significance of the UML Diagram in an Object Oriented System? What is the difference between Class and Object Diagram? (4+6)

B. Explain the following UML in detail. (20)



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CO3.(30) A. What is abstraction? How is this implemented in an Object Oriented System? (4+4)

B. What do you mean by Encapsulation? How encapsulation affects data hiding - discuss with an example. (4+8)

C. Explain association and aggregation in the context of object oriented models with an example. (10)

**CO4. (20)** A. What is Dynamic Binding? How is this related to object Oriented Design and modeling? (3+5)

B. What is Significance of abstract class in Object Oriented System? (3)

C. What is the use of the "super" keyword? (3)

D. What is the use of a friend function in object oriented design? (3)

E. What is the use of pure virtual function in object oriented design? (3)

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