

**An Autonomous Institute**

**NEAR ITPB, CHANNASANDRA, BENGALURU – 560 067**

**Affiliated to VTU,Belagavi**

**Approved by AICTE, New Delhi**

**Recognized by UGC under 2(f) & 12(B)**

**Accredited by NBA & NAAC**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**Assignment I**

**Even Semester (2023-2024)**

**Revised Bloom’s Taxonomy Levels:** L1 – Remembering, L2 – Understanding, L3 – Applying,

L4 –Analyzing, L5 – Evaluating, and L6 - Creating

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| SLNO | SET 1 QUESTIONS | MARKS |
| 1 | Define the following terms with example and UML notation:   1. Inheritance 2. Polymorphism 3. Abstraction | 4 |
| 2 | Define UML ? Explain why it is required ? | 4 |
| 3 | Explain OO themes | 4 |
| 4 | Draw a class diagram and use case diagram for Bank (ATM) application | 8 |
| SLNO | SET 2 QUESTIONS | MARKS |
| 1 | Evidence for usefulness of OO development | 4 |
| 2 | Explain the various Modeling as Design Technique | 8 |
| 3 | Explain the Object and Class Concepts with example | 8 |
| 4 | Draw a class diagram and use case diagram for student studies enrolling in college | 8 |
| SLNO | SET 3 QUESTIONS | MARKS |
| 1 | Explian OO modeling history? | 4 |
| 2 | Explain the various Modeling as Design Technique? The three models | 8 |
| 3 | What are the basic design issues and approaches to machine learning? | 8 |
| 4 | Draw a class diagram and use case diagram for vending machine | 8 |
| SLNO | SET 4 QUESTIONS | MARKS |
| 1 | Explian the Four aspects (characteristics) required by an OO approach are | 8 |
| 2 | Explain Link and Association Concepts with example | 8 |
| 3 | Explain the different Building the Analysis Model | 8 |
| 4 | Draw a state diagram for washing machine | 8 |
| SLNO | SET 5 QUESTIONS | MARKS |
| 1 | Explain the Generalization and Inheritance with example | 8 |
| 2 | What is meant by Domain Analysis in modelling with example | 8 |
| 3 | Explain the various data modelling concepts in building the  analysis models | 8 |
| 4 | Draw a state diagram by showing all the state | 8 |
| SLNO | SET 6 QUESTIONS | MARKS |
| 1 | Draw the class diagram and Level 0 DFD for banking system | 8 |
| 2 | Draw the Level 0 DFD for Railway Reservation system | 8 |
| 3 | Explain the Generalization and Inheritance with example | 8 |
| SLNO | SET 7 QUESTIONS | MARKS |
| 1 | Explain the various Modeling as Design Technique? The three models | 8 |
| 2 | Draw the Level 0 DFD for Railway Reservation system | 8 |
| 3 | Draw a class diagram and use case diagram for Learning management system | 8 |