



DIPLOMA IN COMPUTER ENGINEERING

CENTRALIZED QUESTION BANK

4052651 - SOFTWARE ENGINEERING

**DIRECTORATE OF TECHNICAL
EDUCATION GOVERNMENT OF
TAMILNADU**

DIPLOMA END SEMESTER / YEAR EXAMINATION – 2023

Course : Computer Engineering

Subject : Software Engineering

QP Code : 4052651

Time : 3 Hours **Date** :

Session:

Max Marks: 100

Answer the Following Question

Develop requirements specification for student Management system such as overall problem description, system features, external interface requirements and non-functional requirements.

1. Draw the following Structural modeling diagrams for student Management system:
Develop an UML Class Diagram.
2. Draw the following Structural modeling diagrams for student Management system:
Develop an UML Object Diagram.
3. Draw the following Structural modeling diagrams for student Management system:
Develop an UML Component Diagram.
4. Draw the following Structural modeling diagrams for student Management system:
Develop an UML Deployment Diagram.
5. Draw the following Dynamic modeling diagrams for Library Management system:
Develop a Use case Diagram.
6. Draw the following Dynamic modeling diagrams for Library Management system:
Develop an UML Sequence Diagram.
7. Draw the following Dynamic modeling diagrams for Library Management system:
Develop an UML Collaboration Diagram.
8. Draw the following Dynamic modeling diagrams for Library Management system:
Develop an UML State Chart Diagram.
9. Draw the following Dynamic modeling diagrams for Library Management system:
Develop an UML Activity Diagram.
10. Write a simple JAVA code and perform unit testing.
11. Perform reverse engineering from a simple JAVA code.