

FACULTY OF ENGINEERING

B.E. (I.T) V - Semester (AICTE) (Main & Backlog) (New) Examination, February/ March 2025

Subject: Object Oriented Analysis & Design (P.E-I)

Time: 3 Hours

Max. Marks: 70

- Note:** (i) First question is compulsory and answer any four questions from the remaining six questions. Each question carries 14 Marks.
(ii) Answer to each question must be written at one place only and in the same order as they occur in the question paper.
(iii) Missing data, if any, may be suitably assumed.

1. a) What are the advantages of forward engineering?
b) Render a class, object in a UML diagram.
c) What do you mean by "Swim lane"?
d) Write short notes on Signals.
e) List out the various steps involved in Unified software development process.
f) Define a Core Workflow.
g) Why are Use case diagrams significant?
2. Discuss briefly about nine types of UML diagrams with examples.
3. a) Explain terms tagged values, constraints using diagrams.
b) Discuss about stereotypes and their representations in UML.
4. a) How are Collaboration diagrams different from Sequence diagrams?
b) With neat sketches explain the two types of Interaction diagrams.
5. a) Explain the Software Development Life Cycle in a Unified Process.
b) What are the advantages of a Use Case Driven Process?
6. a) Discuss the purpose of Design workflow.
b) How are requirements captured as Use Cases in a Unified Process?
7. a) Discuss about Dependency and Realization.
b) Explain the terms "Association" and "Composition".