

FACULTY OF ENGINEERING

Code No: G-5175/N/AICTE

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

Subject: Object Oriented Analysis and 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) Elaborate the importance of UML.
 - b) What is object-oriented modeling?
 - c) What are conceptual classes?
 - d) Explain in short Analysis and Design.
 - e) Write about Package design.
 - f) Write a short note on GOF Design patterns.
 - g) Give an example of Event, State, and Transitions.
2.
 - a) What are the requirements of Agile modeling? Explain with an example.
 - b) Discuss in detail about Use Case diagram with the help of an example.
3.
 - a) Explain the concept of Domain Model with an example.
 - b) What are System Sequence Diagrams? Explain with appropriate examples.
4.
 - a) Describe Interaction diagrams in detail.
 - b) Discuss in detail about the Activity diagram.
5.
 - a) Differentiate between Component and Deployment diagram.
 - b) Apply GRASP to object design using any two GRASP patterns.
6.
 - a) Write in detail about Test driven Development.
 - b) Summarize Case study of POS system in detail.
7.
 - a) Describe about Class Diagrams in detail with suitable example.
 - b) Explain about Unified process phases with suitable examples.