

FACULTY OF ENGINEERING

B.E. (CSE) V - Semester (AICTE) (Main & Backlog) (New) Examination, February/ March 2024

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) Write the importance of UML.
b) Distinguish between component and deployment diagram.
c) Define Test Case.
d) What Is Analysis and Design?
e) Distinguish between activity and action state in UML.
f) What is object oriented modeling?
g) Discuss how to depict iterated and broadcast messages in interaction diagrams.
2. a) Describe about the class diagrams with examples in detail.
b) Categorize the building blocks of UML in detail.
3. a) Discuss about UML class diagram with suitable example.
b) Explain Sequence diagram in detail.
4. a) Write a brief note on the following: (i) Stereotypes (ii) Tagged Values and Constraints
b) Describe interaction diagrams in detail.
5. a) Explain component diagram in detail.
b) Demonstrate Factory pattern in detail.
6. a) Construct Test Driven Development in detail.
b) Summarize CASE study of ATM in detail.
7. a) Discuss Observer pattern in detail.
b) What is meant by use case? Explain about use case description with an example.