

Roll No



**PRESIDENCY UNIVERSITY
BENGALURU**

**SCHOOL OF ENGINEERING
MID TERM EXAMINATION - OCT 2023**

Semester : Semester V - 2021

Course Code : CSE3082

Course Name : Sem V - CSE3082 - Object Oriented Analysis and Design

Program : B. TECH

Date : 2-NOV-2023

Time : 2:00PM - 3:30PM

Max Marks : 50

Weightage : 25%

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and non-programmable calculator are permitted.
- (iv) Do not write any information on the question paper other than Roll Number.

PART A

ANSWER ALL THE QUESTIONS

(5 X 2 = 10M)

1. List out the relationship used in use case diagram.
(CO1) [Knowledge]
2. Classify the types of UML diagram.
(CO1) [Knowledge]
3. List out the various approaches for identifying classes.
(CO2) [Knowledge]
4. Classify object relationships.
(CO2) [Knowledge]
5. Classify the properties of a part of relationships.
(CO2) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

(2 X 10 = 20M)

6. As part of your software engineering assignment, consider that you are developing a complex alarm system for a home security application. To assess your grasp of state transition diagrams in Booch notation, sketch an alarm class state transition diagram for this system. Ensure that your diagram effectively illustrates the various states of the alarm and the transitions between them, using Booch notation to represent this crucial aspect of the software design.
(CO1) [Comprehension]
7. Describe association and a- part-of relationship with necessary examples in brief.
(CO2) [Comprehension]

PART C

ANSWER THE FOLLOWING QUESTION

(1 X 20 = 20M)

8. Describe Rumbaugh Object Model and Booch methodology with appropriate examples.
(CO2,CO1) [Application]