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## School of Computing Science and Engineering

Bachelor of Science in Computer Science

Mid Term Examination - May 2024

Duration : 90 Minutes

Max Marks : 50

### Sem IV - E1UP402C - Software Engineering

General Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

- 1) Relate the concept of Use-case approach with small caselet K2 (2)
- 2) What is Unified Modelling Language? K1 (3)
- 3) Explain the term Software engineering paradigm with example ? K2 (4)
- 4) Explain different types of prototype model . Provide real-world examples. K2 (6)
- 5) Discuss the challenges and advantages of Object-Oriented Design in software development. K3 (6)
- 6) Construct a UML class diagram for a simple online shopping system with classes for Customer, Product, and Order. K3 (9)
- 7) Analyze the advantages and disadvantages of using the Waterfall model for software development. K4 (8)
- 8) Compare various class diagrams used to develop a software. K4 (12)

**OR**

Analyze the impact of cohesion on software maintenance. How does it influence the ease of updating code? K4 (12)