

**R17**

Code No: 843AD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

MCA III Semester Examinations, February - 2021

OBJECT ORIENTED ANALYSIS AND DESIGN USING UML

Time: 2 hours

Max. Marks: 75

Answer any five questions  
All questions carry equal marks

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- 1.a) What is UML? Explain briefly.
- b) Explain briefly on Modeling different views of a system and Modeling. [7+8]
2. Explain the various phases existing in SDLC. [15]
- 3.a) Discuss about class diagram and object diagram with example.
- b) Explain briefly Common Mechanisms in Basic Structural modeling. [7+8]
- 4.a) Explain about various stereo types dependency among the class and objects.
- b) Explain various behavioral diagrams in the UML. [7+8]
5. What is sequence diagram? Draw sequence diagram for login authentication. [15]
- 6.a) Explain briefly interaction diagrams with examples.
- b) Draw a use case diagram for credit card validation system. [7+8]
7. What is Component Diagrams? Explain the relationship between component and its interfaces. [15]
8. Define Pattern? Explain various design patterns with examples. [15]

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