

**R17**

**Code No: 843AD**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**MCA III Semester Examinations, July/August - 2021**

**OBJECT ORIENTED ANALYSIS AND DESIGN USING UML**

**Time: 3 Hours**

**Max.Marks:75**

**Answer any five questions**  
**All questions carry equal marks**

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1. Explain about software development life cycle with a neat diagram. [15]
2. Discuss in detail about any two structural and behavioural diagrams in the UML. [15]
3. Explain terms, concepts and common modeling techniques of advanced relationships. [15]
4. Discuss in detail about modeling new building blocks and new semantics. [15]
5. What are common modeling techniques of activity diagrams? Explain. [15]
- 6.a) What is use case? Explain terms and concepts of use cases.  
b) Draw and explain case diagram for course – registration process. [7+8]
- 7.a) How to model processes and threads in UML? Depict with a neat diagram.  
b) Draw the state Machine for an ATM Machine and give a brief description about various elements in it. [7+8]
8. What are terms and concepts of patterns and frameworks? Explain. [15]

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