



Code No: 813AN

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**MCA III Semester Examinations, August - 2017****OBJECT ORIENTED ANALYSIS AND DESIGN (USING UML)****Time: 3 Hours****Max. Marks: 60****Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

PART - A**5 × 4 Marks = 20**

- 1.a) What is the importance of modeling? Explain. [4]
- b) What are the stereotypes used in dependency relationship? Explain. [4]
- c) Distinguish between sequence and collaboration diagrams. [4]
- d) Describe terms and concepts of collaborations. [4]
- e) Identify classes in the unified library application. [4]

PART - B**5 × 8 Marks = 40**

- 2.a) Explain common divisions and extensibility mechanisms in the UML.
 - b) What is UML? Where can the UML be used? Explain. [4+4]
- OR**
- 3.a) Draw a neat diagram of SDLC and explain.
 - b) What kinds of relationships are used in the UML? Explain. [4+4]
- 4.a) Explain about modeling new semantics.
 - b) Describe advance concepts of association relationship. [4+4]
- OR**
- 5.a) Discuss about modeling different levels of abstraction.
 - b) Describe interfaces, types, roles and realization. [4+4]
- 6.a) Explain about modeling a flow of control.
 - b) Draw a sequence diagram that specifies the flow of control involved in initiating a simple, two-party phone call. [4+4]
- OR**
- 7.a) Explain the following:
i) Usecases and actors ii) Scenarios
 - b) Discuss about modeling the requirements of a system. [4+4]
8. Write and explain terms and concepts of events and signals. [8]
- OR**
- 9.a) Explain about modeling lifetime of an object.
 - b) Describe modeling source code with example. [4+4]
10. Explain in detail about patterns and frameworks. [8]
- OR**
11. Draw usecase, activity and statechart diagrams for unified library application. [8]

