

Code No: MC1353/R13

MCA V Semester Regular/ Supplementary Examinations, November-2016

**OBJECT ORIENTED ANALYSIS AND DESIGN
(USING UML)**

Time: 3 Hours

Max. Marks: 60

*Answer Any FIVE Questions
All Questions Carry Equal Marks*

1. a Explain the conceptual model of the UML in detail. 6
b Explain various common mechanisms in UML. 6
2. a Draw the object diagram for any structural organization of any educational system. 6
b State common properties in a Class Diagram. Explain them with an example each. 6
3. a Discuss the differences between collaboration and sequence diagrams 6
b Illustrate modeling of Collaboration with an example. 6
4. a Give the sketch of a state machine for the controller in a home security system, which is responsible for monitoring various sensors around the perimeter of the house. Briefly explain. 6
b Draw the state chart diagram of a ATM. Consider any transaction performed by the customer in one session. 6
5. a Explain the basic elements of deployment diagram and give UML notations. 6
b Discuss standard stereotypes UML defines that apply to components. 6
6. a Explain the features of Object Oriented Language. 6
b Explain about the modeling of single inheritance with an example. 6
7. a Tabulate common properties in a Object diagram. 6
b What is an event? Explain event with an example. 6
8. a Discuss the properties of Components. 6
b Discuss Use Cases in Library application. 6
