

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 |
