



PG – 265

III Semester M.C.A. Examination, January 2016
(CBCS)
COMPUTER SCIENCE
MCA 302 : Object Oriented Analysis and Design using UML

Time : 3 Hours

Max. Marks : 70

SECTION – A

Answer **any five** questions **each** carries **6** marks : (5×6=30)

1. Define object state, methods and messages with examples.
- ~~2.~~ Discuss views in UML with a neat sketch.
3. Compare inheritance versus aggregation with suitable examples.
4. Explain the importance of visibility of attributes and operations when modelling static models.
- ~~5.~~ Discuss coupling and cohesion.
- ~~6.~~ Explain events, signals and state machines with regard to state diagrams.
- ~~7.~~ Substantiate how sequence diagram is different from collaboration diagram.
- ~~8.~~ What is reuse of Framework ? Differentiate between white box Framework and Black Box Framework.

SECTION – B

Answer **any four** questions **each** carries **10** marks : (4×10=40)

- ~~9.~~ Discuss Object Oriented System Development Life Cycle in detail.
- ~~10.~~ Discuss building blocks of Use Case Diagram and draw an Use Case Diagram for Library Management system.

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11. Draw the class diagram for the classes and their relationships involved in ATM System.
 12. Explain State diagram States in detail for the Library System with suitable sketches.
 13. Discuss in detail the flexibility Guidelines for Behavioral Design.
 14. Write short notes on :
 - a) Deployment Diagram. 5
 - b) Component Diagram. 5
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