



PG – 450

III Semester M.C.A. Examination, January 2017  
(CBCS Scheme)  
COMPUTER SCIENCE  
MCA 302 : Object Oriented Analysis and Design using UML

Time : 3 Hours

Max. Marks : 70

*Instruction : Answer any five questions from Section A and any four questions from Section B.*

SECTION – A

Answer any five questions. Each carries six marks.

(5×6=30)

1. Discuss the advantages of OOAD paradigm.
2. Discuss different views of a system for UML.
3. Explain the components of an use case diagram with an example.
4. Describe relationships among classes with suitable illustrations.
5. What is coupling ? How does it affect flexibility of object oriented design ? Explain with an example.
6. What are state diagrams ? Explain their significance in UML.
7. Use case diagrams can be used for identifying classes. Justify.
8. Elaborate on the reuse of libraries and frameworks.

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 Activity diagram and draw an activity diagram for a library system.
11. Discuss class diagramming notations in detail and draw a class diagram for order processing system.



12. Discuss in detail flexibility guidelines for class diagram design.
- ✓ 13. What are interaction diagrams ? Discuss in detail sequence diagram with a supporting example.
14. Write short notes on **any two** of the following.
  - a) Deployment diagram.
  - b) Process architecture.
  - c) Reuse of patterns.