

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

MCA (2012 to 2014 Batch) (Sem.-5)
OBJECT ORIENTED ANALYSIS AND DESIGN WITH USING UML
Subject Code : MCA-504
Paper ID : [A3162]

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTION TO CANDIDATES :

- 1. SECTIONS-A, B, C & D contains TWO questions each carrying TWENTY marks each and students has to attempt any ONE question from each SECTION.**
- 2. SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.**
- 3. Use of non-programmable scientific calculator is allowed.**

SECTION-A

1. Discuss in detail the State modeling techniques with suitable examples.
2. Illustrate the techniques for Class Modeling with examples.

SECTION-B

3. What are various phases of System Development life cycle? Explain with example.
4. What is Class Design? Explain in detail.

SECTION-C

5. What is UML and its need? Name basic building Blocks of UML. Discuss in detail the object architecture of UML.
6. What are Activity Diagrams in UML? How is it different from Interaction diagrams? Explain with examples.

SECTION-D

7. Explain the Object Oriented Methodologies in detail.
8. Write a detailed note on :
 - a) System testing and maintenance
 - b) Reverse Engineering.

SECTION- E

9. Write short note on the following :

- a) Constraints.
- b) Multiple Inheritances.
- c) Adapter and Proxy Patterns.
- d) Application Analysis.
- e) Use Case Diagrams.
- f) Information Modeling Notations.
- g) Argo UML.
- h) Extensibility.
- i) Reusability
- j) Delegation.