Total No. of Questions: 09

MCA (2015 & Onwards)   (Sem. – 5)
OBJECT ORIENTED ANALYSIS AND DESIGN USING UML
M Code: 74384
Subject Code: MCA-504
Paper ID: [74384]

Time: 3 Hrs.   Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:
1. **SECTIONS-A, B, C & D contains TWO questions each carrying TEN marks each and students have 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. Explain the concept of class and object modeling and its components with suitable example.

2. What is SDLC? Explain different phases of SDLC.

SECTION B

3. Describe OMT as SE methodology along with its benefits.

4. State and explain OO impact and style along with its various features.

SECTION C

5. State and explain activity and state diagrams in detail with suitable example.

6. Explain object orientation & development with its advantages and applications.

SECTION D

7. Write and explain different structured design tools.

8. Draw activity and state diagrams with suitable examples along with their explanation.

SECTION E

9. a) What is SRS document?

   b) Explain association with example.

   c) Draw sequence diagram with example.

   d) What is use case? Write down its usage.

   e) Explain DFD with example.

   f) What are relationships in class modeling?

   g) Define reverse engineering.

   h) Give a neat representation of collaboration diagram with explanation.

   i) What is system testing?

   j) Write down the difficulties and risks in use case modeling and UI design.