USN | | | | | | | | | | 15CS551

Fifth Semester B.E. Degree Examination, Dec.2019/Jan.2020
Object Oriented Modeling and Design

Time: 3 hrs.   Max. Marks: 80

Note: *Answer any FIVE full questions, choosing full question from each module.*

Module-1

1. a. List and explain the stages involved in OO – methodology. (08 Marks)
   b. Explain briefly three models used to describe a system. (08 Marks)

OR

2. a. Explain with a neat diagram, how an association class participate in another association. (08 Marks)
   b. What is an association end? What are the different properties of end? (08 Marks)

Module-2

3. a. Explain the requirement diagrams with UML models. (08 Marks)
   b. Explain three different levels of use-case detailed description. (08 Marks)

OR

4. a. What is SSD? What are the steps to develop SSD based on activity diagram? (08 Marks)
   b. What is the purpose of statechart? List the primary steps for developing a state chart. (08 Marks)

Module-3

5. a. List and explain sequence of software development stages. (08 Marks)
   b. Design the initial class diagram for ATM system. (08 Marks)

OR

6. a. Explain the steps to construct the domain state model. (08 Marks)
   b. How are classes identified in domain class model? Briefly explain. (08 Marks)

Module-4

7. a. Define object responsibility. Explain it briefly. (08 Marks)
   b. What is an objective of use-case controller class? Explain the ways to create it. (08 Marks)

OR

8. a. What are the three steps to be followed in developing first cut sequence diagram? Explain Briefly. (08 Marks)
   b. Write a short note on following :
      i) Design class symbols ii) Design class notation. (08 Marks)

Module-5

9. a. Define design pattern. Explain essential elements of design pattern. (08 Marks)
   b. Explain the process of how design pattern solve design problem. (08 Marks)

OR

10. a. Explain the process of how to use and how to select the design pattern. (08 Marks)
    b. Explain in detail adopter design pattern. (08 Marks)

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