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Seventh Semester B.E. Degree Examination, Dec.2016/Jan.2017
Object Oriented Modeling and Design

Time: 3 hrs.

Max. Marks:100

Note: *Answer FIVE full questions, selecting*
at least TWO questions from each part.

PART – A

1   a. What is OO development? Explain its methodology and its themes. **(10 Marks)**
    b. What are Models? Discuss their classification. **(05 Marks)**
    c. What is Generalization? Illustrate and discuss with an example. **(05 Marks)**

2   a. List and explain various restructing techniques used with respect to workarounds. **(10 Marks)**
    b. What is multiple inheritances? Explain different kinds of its with an example illustration. **(10 Marks)**

3   a. What is Aggregation concurrent? Illustrate with an example. **(04 Marks)**
    b. Discuss use case relationship and draw the use case diagram of stock brokerage system. **(08 Marks)**
    c. Explain activity diagram for an UML with an illustration showing stock trade processing. **(08 Marks)**

4   a. With neat diagram. Explain the process overview. **(06 Marks)**
    b. Explain the steps performed in constructing a domain state model with an example. **(08 Marks)**
    c. Explain the class model for an ATM system. **(06 Marks)**

PART – B

5   a. For an ATM example
           i)   Analyze the difference type use cases by designing a use case diagram.
           ii) Explain process transaction scenario. **(12 Marks)**
    b. What is system design? Explain steps involved in it. **(08 Marks)**

6   a. List and explain the steps involved in design of algorithms. **(08 Marks)**
    b. Write a brief note on Realizing algorithm. **(08 Marks)**
    c. Write a note on wrapping. **(04 Marks)**

7   a. With an illustration, explain the dynamics of client-dispatcher-server design pattern. **(10 Marks)**
    b. Explain communication and management patterns. **(10 Marks)**

8   Write short note on
    a. Unified modeling Language
    b. View handler pattern
    c. Command processor pattern
    d. Idioms and styles. **(20 Marks)**

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