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10CS71

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 restructuring 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. (12 Marks)
ii) Explain process transaction scenario. (08 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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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.