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06CS71

Seventh Semester B.E. Degree Examination, December 2012
Object Oriented Modeling and Design (OOMD)

Time: 3 hrs.

Max. Marks:100

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

PART – A

- 1 a. What is object orientation? Explain its aspects with an example. (06 Marks)
- b. What is model? What are its advantages? Briefly discuss about three models. (08 Marks)
- c. What is generalization? Briefly discuss the generalization of equipments. (06 Marks)
- 2 a. Define the following terms, with an example :
i) Enumerations ii) Association ends iii) Aggregation iv) Abstract classes. (08 Marks)
- b. With respect to multiple inheritance, briefly discuss about
i) Multiple classification ii) Workarounds. (06 Marks)
- c. What do you mean by states and events? Draw the state diagram for a telephone line system. (06 Marks)
- 3 a. What is concurrency? Explain the aggregation concurrency, with an example. (06 Marks)
- b. What are sequence models? Draw the sequence model for on – line stock broker system. (06 Marks)
- c. Briefly discuss the usecase relationships and draw the usecase diagram of stock brokerage system. (08 Marks)
- 4 a. Briefly discuss the software development stages. (08 Marks)
- b. Identify the classes for ATM bank system. What criteria would you take into consideration to select right classes? Explain. (08Marks)
- c. List the steps to construct domain state model. (04 Marks)

PART – B

- 5 a. With a neat activity diagram, explain the card verification activity of ATM bank system. (06 Marks)
- b. Define the following terms : i) Libraries ii) Frameworks iii) Patterns. (06 Marks)
- c. Explain the steps in designing a compiler by using batch transformation. (08 Marks)
- 6 a. Briefly discuss the design optimization and explain its tasks, with an example. (08 Marks)
- b. List and explain the steps involved in organizing of a class design. (06 Marks)
- c. Differentiate between forward engineering and reverse engineering. (06 Marks)
- 7 a. What is a pattern? Explain the model – view controller design for software architecture, with OMT diagram. (06 Marks)
- b. Explain the client – dispatcher – design pattern. (08 Marks)
- c. List and explain different pattern categories. (06 Marks)
- 8 a. Explain the command processor design pattern. (08 Marks)
- b. What are idioms and styles? Explain with the help of an example, a style guide idiom. (06 Marks)
- c. Explain the publisher – subscriber design pattern. (06 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.