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06CS71

Seventh Semester B.E. Degree Examination, December 2011
Object Oriented Modeling and Design

Time: 3 hrs.

Max. Marks:100

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

PART – A

- 1 a. What is a model? Give an example. What purpose does it serve? Explain (08 Marks)
- b. What are the link and association? Write and explain UML notation for links and association, with an example. (08 Marks)
- c. Explain qualified association, with an example. (04 Marks)
- 2 a. What is aggregation and composition? Give their respective UML notations, with an example. (10 Marks)
- b. What is an event? Explain different types of events, with an example. (10 Marks)
- 3 a. Draw the use – case diagram, for vending machine. What are the guidelines needed to be followed while drawing use–case models. (10 Marks)
- b. Explain activity diagram, with the UML notation. Give an example. (05 Marks)
- c. Mention the guidelines for activity models. (05 Marks)
- 4 a. What is software development process? Explain the stages of software development process. (10 Marks)
- b. Write and explain the steps performed in constructing a domain state model, with an example. (10 Marks)

PART – B

- 5 a. With a neat block diagram, explain the steps followed in constructing application class model. (10 Marks)
- b. Describe the architecture of an ATM system, with the help of a neat block diagram. (10 Marks)
- 6 a. Explain the different tasks involved in design optimization. (10 Marks)
- b. Write short notes on:
 - i) Reverse engineering Vs forward engineering
 - ii) Wrapping. (10 Marks)
- 7 a. Describe the three categories of pattern. (10 Marks)
- b. With a neat diagram, explain the dynamics of client: Dispatcher server design pattern. (10 Marks)
- 8 a. Define forward receiver design pattern. (02 Marks)
- b. Write and explain the steps to implement a forward receiver design pattern. (10 Marks)
- c. Write the steps to implement the counted pointer idiom. (08 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.