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06CS71

Seventh Semester B.E. Degree Examination, June/July 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 OO development? Explain OO methodology and what are OO themes? (10 Marks)
b. What is modeling concept? Explain. Write class model of windowing system. (10 Marks)
- 2 a. Explain associations and aggregation, with examples. (10 Marks)
b. Explain state diagram and write state model for telephone line, with activities. (10 Marks)
- 3 a. Explain nested states and nested state diagrams, with example. (10 Marks)
b. Explain use case and sequence model, with example. (10 Marks)
- 4 a. Explain process overview and system conception. (10 Marks)
b. Describe domain analysis, with an example of ATM. (10 Marks)

PART – B

- 5 a. Describe application analysis, with an example of ATM. (10 Marks)
b. What is system design? What are the steps of a system design? Explain in detail. (10 Marks)
- 6 a. Explain class design. What are the steps of class design? Explain with an example ATM. (10 Marks)
b. Explain implementation modeling in detail. (10 Marks)
- 7 a. Explain communication patterns. (10 Marks)
b. Explain management patterns. (10 Marks)
- 8 Write a note on :
 - a. Unified Modeling Language (UML).
 - b. Procedural sequence models.
 - c. Legacy systems.
 - d. Idioms. (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.

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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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