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10CS71

Seventh Semester B.E. Degree Examination, Dec.2015/Jan.2016

**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 the object orientation? Explain the characteristics of an object oriented with examples. (10 Marks)
- b. What is modeling concepts? Explain write class model of windowing system. (10 Marks)
- 2 a. Explain the properties of Association ends. (06 Marks)
- b. What is multiple inheritance? Explain the kinds of multiple Inheritance. (08 Marks)
- c. What is an event? Explain different types of events with example. (06 Marks)
- 3 a. Explain nested state and Nested state diagrams with example. (10 Marks)
- b. Define use case models? Explain use case diagram for a vending machine. (06 Marks)
- c. Discuss the Guidelines for activity models. (04 Marks)
- 4 a. Define software development process? Explain the stages of software development process. (10 Marks)
- b. Explain the steps involved in constructing a domain state model. (10 Marks)

**PART – B**

- 5 a. What are the steps involved in constructing an application class model? (10 Marks)
- b. Briefly explain common Architectural styles suited for system design. (10 Marks)
- 6 a. Explain the different steps are involved in design optimization. (10 Marks)
- b. Explain the one – way association and Two way associations. (05 Marks)
- c. Compare Forward Engineering and Reverse Engineering. (05 Marks)
- 7 a. What is pattern? Explain the properties of pattern for software Architecture. (10 Marks)
- b. Describes the Three categories of Patterns. (10 Marks)
- 8 Write short notes on
  - a. Structure part of command processor. (05 Marks)
  - b. Dynamic scenario of view Handler (05 Marks)
  - c. Benefits of view Handler (05 Marks)
  - d. Idioms and style. (05 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.