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10CS71

Seventh Semester B.E. Degree Examination, June/July 2018

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 object oriented themes briefly. (06 Marks)
- b. Define model. Describe the relationship among three models. (06 Marks)
- c. What is generalization? Discuss generalization with an example. (08 Marks)
- 2 a. Define the following terms with an example:
 - i) Multiplicity
 - ii) Visibility
 - iii) Abstract class
 (08 Marks)
- b. Draw the state diagram for telephone system and explain in detail. (12 Marks)
- 3 a. What is concurrency? Explain the aggregation concurrency with an example. (06 Marks)
- b. What are sequence models? Give the guidelines for sequence models. (06 Marks)
- c. Explain use case description with an example. (08 Marks)
- 4 a. Briefly discuss the software development stages. (10 Marks)
- b. List and explain the steps to construct domain class model. (10 Marks)

PART – B

- 5 a. Describe in detail application state model. (08 Marks)
- b. Define the following terms:
 - i) Libraries
 - ii) Frameworks
 - iii) Patterns
 (06 Marks)
- c. Explain the architecture of ATM system with schematic diagram. (06 Marks)
- 6 a. What are the steps in class design? Explain. (10 Marks)
- b. Describe in detail an implementation model, explaining the steps in construction of it. (10 Marks)
- 7 a. What is a pattern? Explain the model view controller design for software architecture with OMT diagram. (06 Marks)
- b. Describe the relationships between patterns. (04 Marks)
- c. Explain client-dispatcher-design pattern with schematic diagram. (10 Marks)
- 8 a. Explain command processor design pattern. (10 Marks)
- b. What are idioms and styles? Explain counted pointer example. (10 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.