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**Seventh Semester B.E. Degree Examination, Dec.2019/Jan.2020**  
**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 the major themes that are well supported in object oriented technology. (10 Marks)  
b. What is model? What are its advantages? Briefly discuss about their models. (10 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. Explain nested states and nested state diagrams, with example. (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. Explain the various software control strategies that can be applied in the system design. (10 Marks)  
b. Describe application analysis, with an example of ATM. (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. What are idioms and styles? Explain with the help of an example, a style guide idiom. (10 Marks)  
b. Write short notes on :  
i) Command processor design pattern  
ii) View handler design pattern. (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.