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Seventh Semester B.E. Degree Examination, Dec.2018/Jan.2019
Object Oriented Modeling and Design

Time: 3 hrs.

Max. Marks: 100

**Note: Answer FIVE full questions, selecting
atleast TWO questions from each part.**

PART – A

- 1 a. Explain object oriented development, object oriented methodology and object oriented themes. (10 Marks)
- b. Explain modeling concept. Write the class model of a windowing system. (10 Marks)
- 2 a. Explain association and aggregation with examples. (10 Marks)
- b. What is an event? Explain the different types of events with examples. (10 Marks)
- 3 a. What is concurrency? Explain aggregation concurrency. Draw relevant figure. (10 Marks)
- b. Explain use case and sequence model with examples. (10 Marks)
- 4 a. Explain software development stages in detail. (10 Marks)
- b. Describe the stages in constructing a domain state model. (10 Marks)

PART – B

- 5 a. With a neat block diagram, explain the steps followed in constructing application class model. (10 Marks)
- b. Explain the steps involved in system design. (10 Marks)
- 6 a. Explain with an example, the class design what are the steps involved in designing. (10 Marks)
- b. Explain : (10 Marks)
 - i) Forward engineering
 - ii) Reverse engineering
 - iii) Wrapping.
- 7 a. What is a pattern? Explain the model view controller design for software architecture with OMI diagram. (10 Marks)
- b. Explain three categories of patterns. (10 Marks)
- 8 Write short notes on : (20 Marks)
 - a. UML
 - b. State model
 - c. Association ends
 - d. Packages.
