USN ☐☐☐☐☐☐☐☐☐☐

10CS71

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 consetercting 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 :
   i) Forward engineering
   ii) Reverse engineering
   iii) Wrapping. **(10 Marks)**

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 :
   a. UML
   b. State model
   c. Association ends
   d. Packages. **(20 Marks)**

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