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10CS71

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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