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10CS71

Seventh Semester B.E. Degree Examination, Aug./Sept.2020
Object Oriented Modeling and Design

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting at least TWO full questions from each part.

PART – A

- 1 a. What is Object-Oriented development methodology? Explain how the Object Oriented approach differs from traditional method or approach. (10 Marks)
b. What are links and associations? Write WML notation for links and association and explain with an example. (10 Marks)
- 2 a. What is aggregation and composition? How is aggregation different from composition? Give their respective UML notations with example. (10 Marks)
b. What is an event? Explain different types of events with example. (10 Marks)
- 3 a. How do you represent branching and concurrency in activity diagram? (10 Marks)
b. Draw usecase diagram for vending machine. What are the guidelines needed to be followed whole drawing use case diagram. (10 Marks)
- 4 a. Explain the stages of software development which life cycle would you prefer in the development? Why? (10 Marks)
b. Describe domain analysis with an example. (10 Marks)

PART – B

- 5 a. Discuss the steps followed in constructing application class model with the diagram. (10 Marks)
b. Explain the architecture of the ATM system with diagram. (10 Marks)
- 6 a. Explain class design. Discuss the steps of a system design. (10 Marks)
b. How do you choose association traversal? Explain with an example. (04 Marks)
c. Write short notes on:
i) Forward Engineering
ii) Reverse Engineering
iii) Wrapping. (06 Marks)
- 7 a. What is pattern? Explain the Model View-Controller design pattern for software architecture. (10 Marks)
b. Discuss the client dispatcher server design pattern. (10 Marks)
- 8 a. What are Forwarder-Receiver design patterns? Give the steps to implement a forward receiver design patterns. (10 Marks)
b. What are Idioms? How they are helpful in selecting optimized solution for a given problem? (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.