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15CS551

Fifth Semester B.E. Degree Examination, Dec.2017/Jan.2018 Object Oriented Modeling and Design

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- a. What is object-oriented model? Explain the important characteristics of object oriented approach. (08 Marks)
 - b. What are links and associations? Write and explain UML notation for links and association with an example.

 (08 Marks)

OR

- 2 a. Define reification. Explain it with a diagram. (08 Marks)
 - b. What is aggregation and composition? Give their respective UML notations with an example.

 (08 Marks)

Module-2

- 3 a. Explain briefly detailed object-oriented requirements definitions. (08 Marks)
 - b. Explain the notation used in use case diagram, with example. (08 Marks)

OR

- 4 a. Illustrate the system sequence with diagrams. (08 Marks)
 - b. List the propose of system diagrams with SSD notations.

(08 Marks)

Module-3

- 5 a. Explain the different stages of software development process. (08 Marks)
 - b. Explain briefly the system conception for an automated tiller machine. (08 Marks)

OR

- 6 a. Explain the various steps to construct a domain class model. (08 Marks)
 - b. Briefly explain the different concepts for iterating the analysis. (08 Marks)

Module-4

- 7 a. Briefly explain the steps involved in design the class design. (08 Marks)
 - b. Illustrate the concept of bridging the gap to design.

(08 Marks)

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- 8 a. Describe the detailed steps of design by use case realization. (98 Marks)
 - b. List the primary responsibilities of view layer, domain layer and data access layer. (08 Marks)

Module-5

- 9 a. What is design pattern? Explain in brief the four essential elements of pattern. (08 Marks)
 - b. Describe in brief in design patter using a consistent format.

(08 Marks)

OR

- 10 a. Explain the benefits and liabilities of abstract factory pattern. (08 Marks)
 - b. Explain with diagram the object adapter class. (08 Marks)

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