

CBCS Scheme

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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

- 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)

OR

- 8 a. Describe the detailed steps of design by use case realization. (08 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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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.