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Question Paper Code : 51354

B.E/B.Tech. DEGREE EXAMINATION, MAY/JUNE 2014.

Sixth Semester

Computer Science and Engineering

CS 2353/CS 63/10144 CS 603 — OBJECT ORIENTED ANALYSIS AND DESIGN

(Common to Information Technology)

(Regulation 2008/2010)

(Common to PTCS 2353 – Object Oriented Analysis and Design for B.E. (Part-Time) Fifth Semester – Computer Science and Engineering – Regulation 2009)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is the need for modeling?
2. What is Object Oriented Analysis and Design?
3. What is Elaboration?
4. Define Aggregation and Composition.
5. What is the use of System sequence diagram?
6. List the relationships used in class diagram.
7. What is Design Pattern?
8. What is meant by Low Coupling?
9. Give the use of UML state diagram?
10. When are Contracts Useful?

PART B — (5 × 16 = 80 marks)

11. (a) List various UML diagrams and explain the purpose of each diagram. (16)

Or

(b) Explain with an example, how use case modeling is used to describe functional requirements. Identify the actors, scenario and use cases for the example. (16)

12. (a) Describe the strategies used to identify conceptual classes. Describe the steps to create a domain model used for representing conceptual classes. (16)

Or

(b) Write briefly about elaboration and discuss the differences between Elaboration and Inception with examples. (16)

13. (a) Illustrate with an example, the relationship between sequence diagram and use cases. (16)

Or

(b) Explain the logical architecture and UML package diagram. (16)

14. (a) Explain about GRASP Patterns. (16)

Or

(b) Write short notes on adapter, singleton, factory and observer patterns. (16)

15. (a) Explain UML State Machine Diagrams and Modeling. (16)

Or

(b) Discuss about UML deployment and component diagrams. Draw the diagrams for a banking application. (16)