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Question Paper Code: 51392

## B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2016

#### **Sixth Semester**

Computer Science and Engineering

### CS 2353/CS 63/10144 CS 603 – OBJECT ORIENTED ANALYSIS AND DESIGN

(Common to Information Technology)

(Regulations 2008/2010)

(Also Common to PTCS 2353 – Object Oriented Analysis and Design for B.E. (Part-Time)

Fifth Semester – Computer Science and Engineering – Regulations 2009)

Time: Three Hours Maximum: 100 Marks

# Answer ALL questions. PART – A $(10 \times 2 = 20 \text{ Marks})$

- 1. Why do we need object oriented systems development?
- 2. List out the steps for finding use cases.
- 3. What is Elaboration?
- 4. Define Aggregation and Composition.
- 5. Define Package and draw the UML notation for Package.
- 6. What is the use of interaction diagram?
- 7. State the use of Design Pattern.
- 8. Define Coupling.
- 9. Give the use of UML state diagram?
- 10. When are Contracts Useful?

## $PART - B \quad (5 \times 16 = 80 \text{ marks})$

11. (a) What do you mean by Unified Process in OOAD? Explain the phases with suitable diagrams. (16)

#### OR

- (b) By considering your own application, perform the Object Oriented System

  Development and give the use case model for the same (use include, extend and generalization).

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

## (OR ad . T nobem tolal of nonmo)

- (b) Explain about activity diagram with an example.
- 13. (a) Illustrate with an example, the relationship between sequence diagram and use cases.

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#### OR

- (b) Explain with a example, how interaction diagrams are used to model the dynamic aspects of a system.
- 14. (a) Describe the concept "of Creator, Low coupling, Controller and High cohesion.

#### OR

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