Reg. No. | | | | | | | | | | | | |

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 × 2 = 20 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 (5 × 16 = 80 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

(b) Explain about activity diagram with an example.

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

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)**
