Reg. No. : ☐☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code : 27172

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2015.

Fifth Semester

Computer Science and Engineering

CS 6502 – OBJECT ORIENTED ANALYSIS AND DESIGN

(Regulations 2013)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Distinguish between method and message in object.

2. What are the three ways and perspectives to Apply UML?

3. Distinguish between coupling and cohesion.

4. When to use patterns?

5. What are the tasks performed in elaboration?

6. How to create a Domain Model?

7. List the relationships used in class diagram.

8. What is meant by System Behavior?

9. What are the steps for mapping Designs to Code?

10. List out the issues in OO Testing.

PART B — (5 × 16 = 80 marks)

11. (a) Explain about Unified process phases.

Or

(b) Explain about Use-Case Model for a case study of your choice.

12. (a) (i) Compare cohesion and coupling with suitable example. (8)

   (ii) State the role and patterns while developing system design. (8)

Or

   (b) (i) Differentiate Bridge and Adapter. (8)

   (ii) How will you design the behavioral pattern? (8)

13. (a) Write about elaboration and discuss the differences between elaboration and Inception with suitable diagram for university domain.

Or

   (b) Construct design for Library Information System which comprises and following notations

   (i) Aggregations

   (ii) Compositions

   (iii) Associations.

14. (a) (i) How to Add New SSDs and Contracts to the design diagram?

   (ii) What are the concepts involved in domain refinement?

Or

   (b) Explain about Interaction Diagram Notation for inventory management system.

15. (a) Elucidate the operation of Mapping Designs to Code.

Or

   (b) What is OO testing? Explain in detail about the Concepts of OO testing in OOAD.