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**Question Paper Code: 31523**

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

Fifth Semester

Computer Science and Engineering

01UCS503 – OBJECT ORIENTED ANALYSIS AND DESIGN

(Regulation 2013)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. What is OOAD?
2. How do you represent a node in a deployment diagram? What kind of information can appear in a node?
3. Define a coupling.
4. What is design pattern?
5. Define aggregation and composition.
6. What is elaboration?
7. List the relationship used in class diagram.
8. Give the use of system sequence diagram.
9. Define class testing.
10. List the approaches of subsystem testing.

PART - B (5 x 16 = 80 Marks)

11. (a) Briefly explain the different phases of unified process. (16)

Or

(b) What is purpose of state chart diagram? How to draw state chart diagram? Explain with an example. (16)

12. (a) Explain about GRASP patterns. (16)

Or

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

13. (a) (i) Describe the basic activities in object oriented analysis and explain how use case modeling is useful in analysis. (10)

(ii) Explain about the next gen POS system. (6)

Or

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

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

Or

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

15. (a) Discuss mapping design to code in detail with an example. (16)

Or

(b) Discuss in detail about GUI testing and system testing. (16)