

MAY 2014

**P/ID 16111/KAL/PITL**

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Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

1. (a) Why is unified approach needed? List its components.

Or

- (b) What are the phases of OMT? Briefly describe each phase.

2. (a) Why are users and extends associations useful in use case modeling?

Or

- (b) What are the uses of device classes?

3. (a) What are the challenges in designing with inheritance?

Or

- (b) How do design axioms help avoid design pitfalls?

4. (a) Describe the process of creating the access layer classes.

Or

- (b) How can use cases help us design the view layer objects?

5. (a) What basic activities are performed in using debugging tools?

Or

- (b) What is the significance of comments in a use satisfaction form?

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

6. Briefly describe the Booch system development processes.
7. Describe sequence diagrams and collaboration diagrams and distinguish them.
8. How would you select candidate classes for the list of relevant and fuzzy classes? Explain in detail.
9. What is an a-part of structure? What are major properties of an a-part of structure? Explain.

**2 P/ID 16111/KAL/PITL**

10. Explain various types of coupling and cohesion. Mention the difference between coupling and cohesion.
  11. Describe the necessary characteristics that a system must satisfy to be considered as an object oriented database.
  12. Why do we need to apply usability testing early on? Why should we apply it often? Explain.
  13. Describe top down and bottom up strategies. Which do you prefer and why?
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