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P.E.S. College of Engineering, Mandya - 571 401
(An Autonomous Institution affiliated to VTU, Belgaum)
Seventh Semester, B.E. - Information Science and Engineering
Semester End Examination; Dec. - 2015
Object Oriented Analysis Design

Time: 3 hrs

Max. Marks: 100

Note: Answer any FIVE full questions, selecting at least TWO full questions from each part.

PART - A

1. a. Write the class model of a windowing system. 6
- b. What is a model? State the purpose of modeling. 5
- c. Describe the different themes of object orientation with example for each one. 9
2. a. Define visibility. Discuss the different issues of visibility. 7
- b. Enlist the following UML notation : i) Class ii) Object iii) Bags and sequences. 9
- c. Explain metamodel with example. 4
3. a. An extension ladder has a rope, pulley and latch for raising, landering and locking the extension. When the latch is locked, the extension is mechanically supported .To release the latch, raise the extension shifting with the rope. The latch produces a clocking sound as it passes over rungs of the ladder. The latch may be reengaged while raising the extension by reversing direction just as the latch is passing a rung. Prepare a State diagram of an extension ladder. 10
- b. Explain activity diagram with example. 10
4. a. Explain the different ways to find new system concepts. 7
- b. Explain how to keep right classes with example. 5
- c. Explain the steps performed in constructing domain state model. 8

PART - B

5. a. Describe the different steps of constructing Application Class model. 8
- b. How do you choose a software control strategy? Explain. 12
6. a. List the different steps to design algorithms. 4
- b. Explain the tasks of Design optimization. 9
- c. Describe the appropriate techniques for implementing advanced association. 7
7. a. Discuss the advanced rules for RDBMS implementation. 8
- b. Explain the steps performed in implementing structures in OO design. 12
8. a. Compare modeling with iterative development. 6
- b. Describe the different kinds of risks identified. 8
- c. Compare; i) Iterative development versus Waterfall ii) Iterative development versus Rapid prototyping. 8

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