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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belgaum)

Seventh Semester, B.E. - Computer Science and Engineering

Semester End Examination; Dec - 2016/Jan - 2017

Object Oriented Modeling Design

Time: 3 hrs *Max. Marks: 100*

***Note**: Answer **FIVE** full questions, selecting **ONE** full question from each unit.*

UNIT - I

1	a.	Explain the different stages of Object Oriented Methodology.	10
	b.	Briefly discuss the three models to describe a system.	6
	c.	Differentiate between Link and Association with example.	4
2	a.	Draw and explain a state diagram for telephone line.	10
	b.	Explain the following with example; i) Enumerations ii) Multiplicity iii) Scope iv) Visibility.	10

UNIT - II

3	a.	Describe the steps performed in constructing domain state model.	10
	b.	Explain the questions that must be answered by a good system concept.	10
4	a.	What is software development process? Mention the different stages of software development.	4
	b.	With example, explain UML diagram.	6
	c.	Explain sequence diagram with any two examples.	10

UNIT - III

5	a.	Explain the steps involved in constructing application interaction model.	10
	b.	Draw an application class model diagram for ATM.	5
	c.	How operations can be added in object oriented analysis?	5
6	a.	Explain the different concepts of Re-use plan for system design.	10
	b.	Explain the different software control strategies.	10

UNIT - IV

7	a.	Explain the steps involved in designing algorithm.	10
	b.	Explain the tasks involved in design optimization.	10
8	a.	Discuss the inputs and outputs for reverse engineering.	10
	b.	Explain the following concepts related to implementation model, i) Fine-tuning classes ii) Fine-tuning Generalizations.	10

Contd.....2

UNIT - V

9	a.	What is a pattern? Briefly explain its propeties. Also mention three-port-schema of pattern.	10
	b.	Explain the pattern discription template.	10
10	a.	Explain the steps involved in client-dispatches-series implementation.	10
	b.	Explain counted-pointer briefly. Also write the steps to implement counted pointer idiom.	10

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