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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				
Not	<i>te</i> : Answer <i>FIVE</i> full questions, selecting <i>ONE</i> full question from each unit.				
1	UNIT - I				
1 a.	Explain the different stages of Object Oriented Methodology.				
b.	Briefly discuss the three models to describe a system. Differentiate between Link and Association with example.				
с. 2 а	Draw and explain a state diagram for telephone line.				
2 a. b.	Explain the following with example;				
υ.	i) Enumerations ii) Multiplicity				
	iii) Scope iv) Visibility.				
	UNIT - II				
3 a.	Describe the steps performed in constructing domain state model.				
b.	Explain the questions that must be answered by a good system concept.				
4 a.	What is software development process? Mention the different stages of software				
	development.				
b.	With example, explain UML diagram.				
c.	Explain sequence diagram with any two examples.				
	UNIT - III				
5 a.	Explain the steps involved in constructing application interaction model.				
b.	Draw an application class model diagram for ATM.				
c.	How operations can be added in object oriented analysis?				
6 a.	Explain the different concepts of Re-use plan for system design.				
b.	Explain the different software control strategies.				
	UNIT - IV				
7 a.	Explain the steps involved in designing algorithm.				
b.	Explain the tasks involved in design optimization.				
8 a.	Discuss the inputs and outputs for reverse engineering.				
b.	Explain the following concepts related to implementation model,				
	i) Fine-tuning classes				
	ii) Fine-tuning Generalizations.				

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## 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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