U.S.N					

ii) Fine-tuning Generalizations.

## 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 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 10 iii) Scope iv) Visibility. **UNIT - II** Describe the steps performed in constructing domain state model. 3 a. 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 4 development. b. With example, explain UML diagram. 6 Explain sequence diagram with any two examples. 10 **UNIT - III** Explain the steps involved in constructing application interaction model. 10 5 a. 5 Draw an application class model diagram for ATM. 5 How operations can be added in object oriented analysis? Explain the different concepts of Re-use plan for system design. 10 6 a. Explain the different software control strategies. 10 **UNIT - IV** Explain the steps involved in designing algorithm. 7 a. 10 Explain the tasks involved in design optimization. 10 8 a. Discuss the inputs and outputs for reverse engineering. 10 Explain the following concepts related to implementation model, i) Fine-tuning classes 10

## 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

\* \* \*