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

(An Autonomous Institution affiliated to VTU, Belgaum)

Sixth Semester, B.E. - Information Science and Engineering Semester End Examination; June - 2016 Object Oriented System Development

Time: 3 hrs Max. Marks: 100

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

UNIT - I

1 a.	What is generalization and inheritance? Give an example of inheritance for graphic objects.	6
b.	What is object orientation? Explain object oriented themes.	7
c.	Explain aggregations with UML Notation. Distinguish between associations and Aggregations.	7
2 a.	Design a class diagram of a work station window management system.	10
b.	Explain the terms meta data, Reification, constraints, Derived data and package with respect to	1.0
	object oriented development.	10
	UNIT - II	
3 a.	Consider an example of an online stock brocker. Write scenario and sequence diagram for a	10
	session with online stock brocker.	10
b.	b. What are the problems with flat state diagrams? For a vending machine problem explain how	
	nested state diagrams overcome the problems.	8
c.	What is Do-activity?	2
4 a.	Explain the different types of procedural sequence models.	8
b.	What is concurrency? Explain any two types of concurrency among objects.	8
c.	Describe the terms signal event and change events.	4
	UNIT - III	
5 a.	Explain how right chesses are identified and data dictionary is built in domain class modeling.	10
b.	b. For an ATM case study, explain how system is conceptualized and problem statement is	
	prepared.	10
5 a.	Explain the steps to construct application class model.	10
b.	In domain class model, explain how right attributes are identified. Give an example.	10
	UNIT-IV	
7 a.	Discuss the steps in formulating the algorithm. Give an example.	10
b.	Explain the different ways, how a system is broken into sub systems.	7
C.	Describe the management of data storage.	3

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8 a.	3 a. In a class design explain the steps in adjustment of inheritance. Give example.				
b.	Explain how each concurrent subsystem is allocated to a processor. Give example.	10			
UNIT - V					
9 a.	What is a pattern? Explain the different types of patterns. Explain the relationship between patterns.	10			
b.	Write and explain the steps to implement command processor.	10			
10 a.	Explain the steps to implement view handler design pattern.	10			
b.	Explain the In-process quality metrics with an example.	10			

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