USN	Department of Library BRIS Institute of Technology	06CS71
	M.S.M. Good Stages GANGALONE Y	

Seventh Semester B.E. Degree Examination, May/June 2010 Object Oriented Modeling and Design

Time: 3 hrs.

Max. Marks:100

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

PART-A

1	a.	Explain briefly three models used to describe a system.	(06 Marks)		
	Ъ.	Explain with a diagram, how an association class participates in another associat	ion.		
			(04 Marks)		
	C.	With a neat diagram, explain a class model of a work-station window manager	nent system.		
			(10 Marks)		
2	a.	What is an association end? What are the properties of an association end?	(06 Marks)		
277.5	b.	Define reification. Explain it with a diagram.	(06 Marks)		
	c.	Explain with a diagram, the basic UML syntax for state diagrams.	(08 Marks)		
3	a.	Explain with a diagram, nested states for a phone line.	(06 Marks)		
		What is a usecase? Explain the guidelines for usecase models.	(08 Marks)		
		What do you mean by a swimlane? Explain briefly an activity diagram with s	wimlanes for		
		servicing an airplane.	(06 Marks)		
4	a.	Explain the sequence of software development stages.	(08 Marks)		
-4		What do you mean by system conception? Explain devising a system concept.	(08 Marks)		
		List the steps to construct a domain state model.	(04 Marks)		
		PART – B			
5	a.	With a neat sequence diagram, explain process transaction scenario.	(08 Marks)		
	b.	What are the different aspects of reusability? Explain the reusable things.	(08 Marks)		
	C.	What are the steps in designing a pipeline for a continuous transformation?	(04 Marks)		
6	a.	Explain the consideration for choosing alternative algorithms.	(06 Marks)		
	b.	When fine-tuning of classes is essential? How is it achieved?	(08 Marks)		
	c.	Compare forward engineering and reverse engineering.	(06 Marks)		
7	a.	Explain briefly the properties of patterns for software architecture.	(08 Marks)		
6.	b.	Explain pattern categories.	(06 Marks)		
	c.	What is a forwarder-receiver design pattern? When is it useful?	(06 Marks)		
8	a.	Explain the liabilities imposed by a command processor pattern.	(06 Marks)		
	b.	Why view handler design pattern is used? Explain the scenario of the view handler creating			
		a new view.	(08 Marks)		
	c.	Write the steps to implement the counted pointer idiom.	(06 Marks)		
