							1
USN	//					~ 11	0CS71
	14						
	31)

Seventh Semester B.E. Degree Examination, Dec.2017/Jan.2018 Object Oriented Modeling and Design

Time: 3 hrs.

Max. Marks:100

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

		atleast TWO questions from each part.	
		aneast I wo questions from each part.	
		PART - A	
		What is object orientation? Explain its aspects with an example. Explain the cond	cent of OO
1	a.		(10 Marks)
	1.	themes. Explain the following with examples:	(10 1111115)
	b.	i) Links and associations ii) Multiplicity iii) Association class	
		ii) Qualified association v) Bags and sequences.	(10 Marks)
		ii) Quanticu association	
2	a.	Explain:	
4	a.	i) Aggregation Vs Association ii) Aggregation Vs composition.	(05 Marks)
	b.	Prepare a metadata of a CAR model that supports only the following UML conce	pts: Class,
	0.	attribute, association, association end, multiplicity, class name and attribute name	e. Use only
		these constructs to build the metadata.	(05 Marks)
	c.	What is an event? Explain different types of events with an example.	(10 Marks)
	٠.	() 57	
3	a.	With an example explain the aggregation concurrency.	(08 Marks)
	b.	Explain scenarios and sequence diagram of an online stock broker.	(08 Marks)
	c.	Discuss the guidelines for activity models.	(04 Marks)
		.2)	
4	a.	Discuss the steps to construct a domain class model with an example.	(12 Marks)
	b.	Explain the software development stages.	(08 Marks)
		ALDE D	
		PART - B	
5	a.	Explain any 2 steps to construct an application model with an example.	(06 Marks)
	b.	Prepare a state diagram for session controller.	(06 Marks)
	c.	Explain batch transformation and continuous transformation architectural styles.	(08 Marks)
			(00.34 1-)
6	a.	List and explain the steps involved in the design of algorithms.	(08 Marks)
	b.	Write briefly on: i) Fine tuning class ii) Design optimization.	(06 Marks) (06 Marks)
	c.	Differentiate between forward engineering and reverse engineering.	(00 Marks)
		A transfer for software architecture	(08 Marks)
7		What is a pattern? Explain the properties of pattern for software architecture. Explain the model view controller design pattern for software architecture with	
	b.	Explain the model view controller design pattern for software are interestate with	(06 Marks)
		diagram. Two peers P1 and P2 communicate with each other. For this purpose P1 uses	
	c.	Thomas and receiver recyl P2 handles all message transfers with a forwarder	roiwa and
	L	receiver recv2. Design a scenario which illustrate a typical example of the	is use of a
		forwarder – Receiver structure.	(06 Marks)
		101 Harder Acception	

8 a. What are idioms and styles? Explain the Publisher – Subscriber design pattern.
b. Write the steps to implement the counter pointer idiom.
(10 Marks)
(10 Marks)

* * * * *