Max. Marks:100

## Seventh Semester B.E. Degree Examination, Jan./Feb. 2023

## **Object Oriented Modeling and Design**

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

		PART – A	1 minuted	
1	a.	Explain object oriented development, object oriented methodology and object	(10 Marks)	
		· ·	(10 Marks)	
	b.	Explain modeling concept. Write the class model of a windowing system.	(10 112223)	
			(10 Marks)	
2	a.	Explain association and aggregation with examples.	(10 Marks)	
	b.	What is an event? Explain the different types of events with examples.	(	
			(10 Marks)	
3	a.	What is concurrency? Explain aggregation concurrency. Draw relevant figure.	(10 Marks)	
	b.	Explain use case and sequence model with examples.	,	
			(12 Marks)	
4	a.	Discuss the steps to construct a domain class model with an example.	(08 Marks)	
	b.	Explain the software development stages.		
		$\frac{PART - B}{\text{Proposition model with an example.}}$	(06 Marks)	
5	a.	Explain any 2 steps to construct an application model with an example.	(06 Marks)	
	b.	Prepare a state diagram for session controller.  Prepare a state diagram for session controller.	(08 Marks)	
	c.	Prepare a state diagram for session continuous.  Explain batch transformation and continuous transformation architectural styles.		
		to design of algorithms.	(08 Marks)	
6	a.			
	b.	Write briefly on:		
		i) Fine tuning class	(06 Marks)	
		<ul><li>ii) Design optimization.</li><li>Differentiate between forward engineering and reverse engineering.</li></ul>	(06 Marks)	
	C	Differentiate between forward engineering and reverse and		
		Define patterns. Explain the relationship between the patterns.	(10 Marks)	
7	a	Define patterns. Explain the relationship octavers	(10 Marks)	
	b	Explain forwarders-Receiver design patterns.		
		. With an example of multi-document editors explain view handler.	(10 Marks)	
8		and the state of t		
	b	Explain how counted pointer idion makes many	(10 Marks)	
		shared objects on C++ easier.		