(10 Marks)

## Seventh Semester B.E. Degree Examination, Dec.2023/Jan.2024 Object Oriented Modeling and Design

Time: 3 hrs.

Max. Marks: 100

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

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PART - A				
1	a.	What is OO system development methodology? Explain the five stages in OO methodology		
			(05 Marks)	
	b.	Explain three kinds of model which separates a system into distinct views.	(10 Marks)	
	C.	Define and give UML notation for		
		(i) Object with values and classes with attributes		
		(ii) Qualified association.	(05 Marks)	
2	a.	Explain:		
		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		
		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)	
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3	a.	What are nested states? Discuss aggregation concurrency with an example.	(08 Marks)	
	b.	Explain include and extend relationships with examples.	(06 Marks)	
	C.	Explain types of sequence models with examples.	(06 Marks)	
4	a.	Explain software development life cycle by considering OO approach.	(08 Marks)	
	b.	For what kind of Questionaries a good system concept must answer? Justify with	example.	
			(08 Marks)	
	C.	List the steps required to construct a domain class model.	(04 Marks)	
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_		PART - B  List a description of the extension of the construction of the model	(07 Marks)	
5	a.	List and explain the steps required for constructing application class model.	(07 Marks)	
	b.	How to organize a decomposition of a system into subsystem? Explain in brief. Explain how to choose a software control strategy in brief.	(00 Marks)	
	c.	Explain now to choose a software control strategy in orier.	(07 Marks)	
6	0	List and explain the steps involved in the design of algorithms.	(08 Marks)	
6	b.	Write briefly on: i) Fine tuning class ii) Design optimization.	(06 Marks)	
		Differentiate between forward engineering and reverse engineering.	(06 Marks)	
	C.	Differentiate between forward engineering and reverse engineering.	(00 1111113)	
7	a.	Explain the model-view-controller with a diagram.	(10 Marks)	
/	a. b.	Explain the client-dispatcher-server communication patterns along with its str	120	
	υ.	dynamics.  CMRIT LIBRARY	(10 Marks)	
		BANGALORE - 560 037	,	
8	a.	With an example of multi-document editors explain view handler.	(10 Marks)	
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shared objects on C++ easier.

Explain how counted pointer idiom makes memory management of dynamically-allocated