

USN

10CS71

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

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 object oriented development, object oriented methodology and obj	ect oriented
		themes.	(10 Marks)
	b.	Explain modeling concept. Write the class model of a windowing system.	(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.	(10 Marks)
4	a.	Discuss the steps to construct a domain class model with an example.	(12 Marks)
	b.	Explain the software development stages.	CMRIT LIBRARY
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PART - F

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)

	6 a.	. List and	d explain the steps inv	olved in the design of algo	rithms. (08 Marks)
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b.	Write	briefly	on:

1)	Fine tuning class
(;;	Decign ontimization

11)	Design optimization	n.		(06 Marks)
Diffe	rentiate between for	rward en gineerin	g and reverse engineering	(06 Marks)

7	a. Define patterns.	Explain the relationship between the patterns.	(10 Marks)
	b. Explain forward	ers-Receiver design patterns.	(10 Marks)

8	a.	With an example of multi-	ocument editors explain	view handler. (10 Marks))
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b. Explain how counted pointer idiom makes memory management of dynamically-allocated shared objects on C++ easier. (10 Marks)

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Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.