H.T.No.										
Code No: CS3512							S	RGI	EC-	R20
III B.Tech II Semester Regular Examinations, May 2023										
OBJECT ORIENTED AN	AL	YS	IS A	ANI	D D	ESI	GN	Ī		

		(Open Elective-III)							
Tin	ne:	3 Hours Max. Mar	ks: 70						
Not	te:	Answer one question from each unit.							
		All questions carry equal marks.	$5 \times 14 = 70M$						
		UNIT-I	- 70IVI						
1.	۵)	What is the purpose of structural things in UML? Briefly explain the structural things in UML?	ings in						
1.	a)	UML.	(8M)						
	b)	How does object oriented modeling differs from algorithmic perspective? Explain.	(6M)						
		(OR)							
2.	a)	Why do we model? Write the reasons for modeling.	(7M)						
	b)	What is the need for extensibility mechanisms in UML? Explain with suitable examples and the suitable examples of the sui	ple. (7M)						
		UNIT-II							
3.	a)	Define Interface in Structural Model. What are various types and roles in Interfactural Model?	face in (7M)						
	b)	Explain dependency and generalization relationships with suitable example.	(7M)						
		(OR)							
4.	a)	Use class diagrams to model Railway Reservation System.	(7M)						
	b)	Differences between Class and Object with suitable examples. What are the Object Design?	ives of (7M)						
		UNIT-III							
5.	a)	Draw a use case diagram for Library Management System.	(6M)						
		Which two diagrams are known as isomorphic diagrams? Draw the interaction diagrams for Hospital Management System.	agrams (8M)						
		(OR)							
6.	a)	Describe the purpose of usecase diagram. Draw usecase diagram for online sho system.	opping (6M)						
	b)	Explain sequence diagram? Draw the sequence diagram for ATM.	(8M)						
		UNIT-IV							
7.	a)	What is the purpose of an activity diagram? Illustrate with suitable example.	(6M)						
	b)	Explain modeling of four kinds of events in UML with necessary examples.	(8M)						

- 8. a) Design a state machine for Home Temperature Control System. (6M)
 - b) What is the difference between statechart diagram and activity diagram? Explain your answer with an example. (8M)

UNIT-V

- 9. a) Exemplify common properties and common uses of component diagram. (7M)
 - b) Explain the common modeling Techniques of Deployment diagrams? (7M)

(OR)

- 10. a) Write the steps to model adaptable systems using component diagrams. (6M)
 - b) What is the significance of deployment diagrams? Draw deployment diagram for ATM. (8M)
