SET -1 **R20** Code No: R203205C

III B. Tech II Semester Regular Examinations, JULY-2023 OBJECT ORIENTED ANALYSIS AND DESIGN

(Com. To CSE & IT)

Time: 3 hours Max. Marks: 70

		Answer any FIVE Questions ONE Question from Each unit	
		All Questions Carry Equal Marks	

		<u>UNIT-I</u>	
1.	a)	Why software is inherently complex? Explain in detail.	[7M]
	b)	What are requirements for the satellite navigation system? Explain.	[7M]
		(OR)	
2.	a)	Explain about the meaning of design. Describe the steps in designing process.	[7M]
	b)	Discuss about validating the proposed system architecture of satellite navigation system.	[7M]
		<u>UNIT-II</u>	
3.	a)	Describe common modeling techniques of relationships.	[7M]
	b)	Explain about determining system use cases of the train traffic management system.	[7M]
		(OR)	
4.	a)	Briefly discuss about the conceptual model of the UML.	[7M]
	b)	Discuss about defining the TTMS architecture.	[7M]
		<u>UNIT-III</u>	
5.	a)	How to identify classes in class diagrams? Explain.	[7M]
	b)	Discuss about the elaboration phase of Cryptanalysis.	[7M]
		(OR)	
6.	a)	Describe common modeling techniques of Packages.	[7M]
	b)	What are requirements of Cryptanalysis? Explain about analysis of knowledge sources.	[7M]
		<u>UNIT-IV</u>	
7.	a)	What are interaction diagrams? Explain with examples.	[7M]
	b)	Describe client and implementation views of Vacation Tracking System. (OR)	[7M]
8.	a)	Explain common modeling techniques of activity diagrams.	[7M]
	b)	Describe service data objects and primary key generation of Vacation Tracking System.	[7M]
		<u>UNIT-V</u>	
9.	a)	"State machines are used for behavioral modeling" Justify.	[7M]
	b)	Discuss about scenarios of Weather Monitoring System.	[7M]
1.0		(OR)	F#3 #3
10.	a)	Describe deployment diagrams with suitable examples.	[7M]
	b)	Discuss about requirements and post transition of Weather Monitoring System.	[7M]

Code No: R203205C (R20) (SET -2

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Time: 3 hours Max. Marks: 70

		Answer any FIVE Questions ONE Question from Each unit All Questions Carry Equal Marks	

		<u>UNIT-I</u>	
1.	a)	What are categories of analysis and design methods? Explain.	[7M]
	b)	Explain about allocating nonfunctional requirements and specifying interfaces in satellite-based navigation.	[7M]
2.	a)	(OR) Discuss about the canonical form of a complex system.	[7M]
2.		• •	
	b)	How to determine mission use cases of satellite-based navigation? Explain UNIT-II	[7M]
3.	a)	Discuss various phases of software development life cycle.	[7M]
	b)	Explain about Key Abstractions and Mechanisms of TTMS.	[7M]
	0)	(OR)	[,1,1]
4.	a)	Explain common modeling techniques of classes.	[7M]
	b)	Describe train schedule planning of TTMS.	[7M]
		<u>UNIT-III</u>	
5.	a)	What is an object diagram? Explain identifying objects in object diagrams.	[7M]
	b)	Discuss about designing the controller of Cryptanalysis.	[7M]
		(OR)	
6.	a)	What are advanced relationships in UML? Explain.	[7M]
	b)	Describe dependencies and affirmations of Cryptanalysis.	[7M]
7.	a)	<u>UNIT-IV</u> Explain the importance use case diagram with example.	[7M]
7.	b)	Discuss about use case view of Vacation Tracking System.	[7M]
	-,	(OR)	[,-,-]
8.	a)	Describe terms and notations of use cases with suitable examples	[7M]
	b)	Explain the inception phase of Vacation Tracking System. UNIT-V	[7M]
9.	a)	What are common modeling techniques of Component diagrams? Explain.	[7M]
	b)	Describe sensor mechanism and display mechanism of Weather Monitoring System.	[7M]
		(OR)	
10.	a)	How events and signals are useful in UML? Explain.	[7M]
	b)	Discuss about use cases of Weather Monitoring System.	[7M]

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SET-3

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Time: 3 hours Max. Marks: 70

Answer any FIVE Questions ONE Question from Each unit All Questions Carry Equal Marks *****

- \	<u>UNIT-I</u>	[7] \ (1)
,	* * *	[7M]
D)	• •	[7M]
a)	Explain about arithmetic and object-oriented decompositions.	[7M]
b)	Describe the satellite navigation system's post transition.	[7M]
,	UNIT-II	
a)	What are basic building blocks of the UML? Explain.	[7M]
b)	Discuss about Subsystem Specification of TTMS.	[7M]
	(OR)	
a)	Explain about classification of UML diagrams in detail.	[7M]
b)	Describe message passing in TTMS with neat diagrams.	[7M]
	<u>UNIT-III</u>	
a)	What are common modeling techniques of advanced relationships? Explain.	[7M]
b)	Describe designing the knowledge sources of Cryptanalysis.	[7M]
	(OR)	
a)	Write and explain terms and concepts of interfaces, types and roles.	[7M]
b)	Discuss about post transition of Cryptanalysis.	[7M]
	<u>UNIT-IV</u>	
		[7M]
b)	The state of the s	[7M]
a)	What are common modeling techniques of interactions? Explain.	[7M]
b)	Explain the web pages and the user interface of Vacation Tracking System.	[7M]
	<u>UNIT-V</u>	. ,
a)	Discuss about state chart diagrams in detail.	[7M]
b)	Discuss about the frame mechanism of Weather Monitoring System.	[7M]
a)		[7M]
b)	What are Weather Monitoring System Use Cases? Explain.	[7M]
	b) a) b)	a) What are the five attributes of a complex system? Explain. b) Draw and explain the white-box activity diagram for control launch of satellite-based navigation (OR) a) Explain about arithmetic and object-oriented decompositions. b) Describe the satellite navigation system's post transition. UNIT-II a) What are basic building blocks of the UML? Explain. b) Discuss about Subsystem Specification of TTMS. (OR) a) Explain about classification of UML diagrams in detail. b) Describe message passing in TTMS with neat diagrams. UNIT-III a) What are common modeling techniques of advanced relationships? Explain. b) Describe designing the knowledge sources of Cryptanalysis. (OR) a) Write and explain terms and concepts of interfaces, types and roles. b) Discuss about post transition of Cryptanalysis. UNIT-IV a) Explain about terms and concepts of activity diagrams. b) Describe entities of Vacation Tracking System. (OR) a) What are common modeling techniques of interactions? Explain. b) Explain the web pages and the user interface of Vacation Tracking System. UNIT-V a) Discuss about state chart diagrams in detail. b) Discuss about the frame mechanism of Weather Monitoring System. (OR) a) Describe common modeling techniques of deployment diagrams.

SET-4

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Answer any **FIVE** Questions **ONE** Question from **Each unit** All Questions Carry Equal Marks

		UNIT-I	
1.	a)	Discuss about the roles of abstraction and hierarchy in detail.	[7M]
	b)	Describe validating the proposed system architecture of satellite-based navigation	[7M]
		(OR)	
2.	a)	Explain about the structure of complex systems.	[7M]
	b)	Describe stipulating the system architecture and its deployment.	[7M]
		<u>UNIT-II</u>	
3.	a)	What is modeling? Explain the importance of modeling.	[7M]
	b)	Discuss about analyzing system functionality of TTMS.	[7M]
		(OR)	
4.	a)	Explain about relationships in the UML with examples.	[7M]
	b)	What are requirements for the Train Traffic Management System? Explain.	[7M]
		UNIT-III	
5.	a)	Describe terms and concepts of advanced classes.	[7M]
	b)	Briefly explain about inception phase of Cryptanalysis.	[7M]
		(OR)	
6.	a)	Explain common modeling techniques of class and object diagrams.	[9M]
	b)	Describe blackboard objects of Cryptanalysis.	[5M]
		<u>UNIT-IV</u>	
7.	a)	Explain about common modeling techniques of Use cases.	[7M]
	b)	Discuss about analysis and design model of Vacation Tracking System. (OR)	[7M]
8.	a)	Describe activity diagrams for School Management System.	[7M]
	b)	Explain logical and process views of Vacation Tracking System.	[7M]
	0)	UNIT-V	[/1/1]
9.	a)	Discuss about terms and concepts of threads, time and space.	[7M]
	b)	Explain about defining the Problem Boundaries of Weather Monitoring System.	[7M]
		(OR)	
10.	a)	Explain about component diagrams in detail.	[7M]
	b)	Describe the user interface mechanism of Weather Monitoring System.	[7M]