

Code No: R1631053





III B. Tech I Semester Supplementary Examinations, May - 2019 **OBJECT ORIENTED ANALYSIS & DESIGN USING UML**

(Computer Science and Engineering)

Marks: 70

[2M]

[2M]

[2M]

[3M]

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Tir	ne: 3	B hours Max. I
		 Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. Answer ALL the question in Part-A 3. Answer any FOUR Questions from Part-B
1.	a)	What is the difference between UML and OOAD?
	b)	Explain with an example how to depict an asynchronous message.
	c)	Explain why object oriented approach is preferable when compared to other approaches?
	d)	Define Association and Aggregation.
	e) f)	Define package and draw the UML notation for Package. Define Events, States and Transitions. <u>PART -B</u>
2.	a)	Consider the building of a house. Explain the concept of Modularity and how modularity helps better work allocation and better performance.
	b)	What is the importance of modeling in object oriented and explain modeling principles.
3.	a)	What is a nature of Class and Object? How to identify Classes and Objects with suitable Examples.
	b)	Justify the term "Importance of Proper Classification" with a suitable example.
4.	a)	Define UML. How it is used? What actually it deals about and its contents?
	b)	Draw a Class diagram for Online Railway Reservation System with analysis.
5.	a)	Explain about forking and joining concepts in activity diagram with an example.
	b)	Consider modeling a student information system. Consider the use case "student registers for a course". Draw a sequence diagram and explain briefly.
6.	a)	Define the following Terms. i) Events and Signals ii) Process and Thread iii) Time and Space
	b)	Prepare an activity diagram that elaborates the details of logging into an email system. Explain the steps with a neat diagram.

- a) Define Component. What are the differences between components and classes? 7. [7M] How are component and interface related?
 - b) Draw a diagram that shows set of nodes and their relations for library [7M] management system.
