**SET** - 1

Code No: R1631053

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

(Computer Science and Engineering)

Tin	ne: 3	S hours Max.	Marks: 70
		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	
		<u>PART –A</u>	
1.	a)	What is the difference between UML and OOAD?	[2M]
	b) c)	Explain with an example how to depict an asynchronous message. Explain why object oriented approach is preferable when compared to other approaches?	[2M] [2M]
	d)	Define Association and Aggregation.	[3M]
	e) f)	Define package and draw the UML notation for Package.  Define Events, States and Transitions.  PART -B	[3M] [2M]
2.	a)	Consider the building of a house. Explain the concept of Modularity and how modularity helps better work allocation and better performance.	[7M]
	b)	What is the importance of modeling in object oriented and explain modeling principles.	[7M]
3.	a)	What is a nature of Class and Object? How to identify Classes and Objects with suitable Examples.	[7M]
	b)	Justify the term "Importance of Proper Classification" with a suitable example.	[7M]
4.	a)	Define UML. How it is used? What actually it deals about and its contents?	[7M]
	b)	Draw a Class diagram for Online Railway Reservation System with analysis.	[7M]
5.	a)	Explain about forking and joining concepts in activity diagram with an example.	[7M]
	b)	Consider modeling a student information system. Consider the use case "student registers for a course". Draw a sequence diagram and explain briefly.	[7M]
6.	a)	Define the following Terms.  i) Events and Signals  ii) Process and Thread  iii) Time and Space	[6M]
	b)	Prepare an activity diagram that elaborates the details of logging into an email system. Explain the steps with a neat diagram.	[8M]
7.	a)	Define Component. What are the differences between components and classes? How are component and interface related?	[7M]
	b)	Draw a diagram that shows set of nodes and their relations for library management system.	[7M]

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