

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

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 70

Time: 5 hours Max. Marks:			
 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)	Explain with an example how to depict an asynchronous message.	[2M]
	c)	Explain why object oriented approach is preferable when compared to other approaches?	[2M]
	d)	Define Association and Aggregation.	[3M]
	e)	Define package and draw the UML notation for Package.	[3M]
	f)	Define Events, States and Transitions. PART -B	[2M]
2.	a)	Consider the building of a house. Explain the concept of Modularity and how	[7M]
	,	modularity helps better work allocation and better performance.	
	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	[7M]
	b)	with suitable Examples. Justify the term "Importance of Proper Classification" with a suitable	[7M]
	,	example.	
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	[7M]
	b)	example. Consider modeling a student information system. Consider the use case	[7M]
		"student registers for a course". Draw a sequence diagram and explain briefly.	
6.	a)	Define the following Terms.	[6M]
		i) Events and Signalsii) 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.	[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	[7M]
		management system.	