

Code No: **R41052**

R10

Set No. 1

Max. Marks: 75

IV B.Tech I Semester Supplementary Examinations, February - 2019 UML AND DESIGN PATTERNS

(Computer Science and Engineering)

Time: 3 hours

Answer any Five Questions All Questions carry equal marks

1	a)b)c)	Give the usages of Unified Modeling Language. Explain in brief about the four kinds of relationships in UML. What is an UML diagram? How many diagrams are there in UML? Explain.	[4] [4] [7]
2	a) b)	What is class diagram? What is the use of Class diagram? Explain with an example. Discuss the common modeling techniques in UML.	[8] [7]
3	a) b)	Explain about the Interaction diagram in UML with an example. Brief the purpose of an activity diagram in UML. Draw an Activity diagram for	[8]
		Hospital Management system.	[7]
4	a) b)		[8]
	,	for Online Shopping Web application.	[7]
5	a) b)	Discuss design patterns in Smalltalk MVC. Describe the step by step approach for applying a design pattern effectively.	[8] [7]
6	a)	Discuss the benefits of Creational Patterns.	[8]
Ü	b)	Explain the motivation for Singleton and Discuss the applications and consequences of Singleton.	[7]
7	a) b)	Discuss various implementation issues involved in applying decorator pattern. Distinguish between the adapter and bridge patterns.	[8] [7]
8	a) b)	Describe implementation issues to be considered in chain of responsibility. Describe about the implementation and dependency mechanism of observer	[8]
	0)	design pattern.	[7]