Code No: **R41052** 

## **R10**

Set No. 1

## IV B.Tech I Semester Supplementary Examinations, March/April - 2016 UML AND DESIGN PATTERNS

(Computer Science and Engineering)

Time: 3 hours  Max. Mar			s: 75
Answer any FIVE Questions All Questions carry equal marks  *****			
1		Discuss about different diagrams in UML.	[15]
2	a)	What are the common modeling techniques of object diagram? Explain.	[8]
	b)	Draw the class diagram for the ATM machine.	[7]
3	a)	What is use case and actor? Explain about various relationships in use case	
		diagram.	[8]
	b)	What are different kinds of states? Explain.	[7]
4	a)	Discuss about the deployment diagram.	[8]
	b)	Differentiate between deployment and component diagrams.	[7]
5	a)	How to select Design pattern? Discuss.	[8]
	b)	Explain about the catalogs of Design patterns.	[7]
6	a)	What is singleton? Explain the importance of the singleton.	[8]
	b)	In design pattern encapsulation method is used? Discuss.	[7]
7	a)	What are the uses of the façade pattern? Discuss.	[8]
	b)	Give structure for the Flyweight pattern.	[7]
8	a)	For large-scale object oriented applications, which design pattern is helpful? Explain.	[8]
	b)	What is strategy? What are the advantages of strategy pattern? Explain.	[7]