

Code No: **RT41052**

R13

Set No. 1

IV B.Tech I Semester Supplementary Examinations, February/March - 2018 UML & Design Patterns

(Common to Computer Science and Engineering and Information Technology)

Time: 3 hours Max. Marks: 70

Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THEE questions from Part-B *****

PART-A (22 Marks)

1.		Define the terms: disciplines, artifact and phase.	[3]
		Define inception? What is the purpose of inception?	[4]
	c)	What is a domain model? Why call a domain model "a visual dictionary"?	[4]
	d)	Give the structure for 'singleton' design pattern.	[4]
	e)	How to apply state chart diagrams in UML.	[3]
	f)	When to define conceptual subclass and conceptual super class.	[4]
$\underline{\mathbf{PART-B}}(3x16 = 48 \; Marks)$			
2.	a)	What is UML? List and explain how the UML can be applied.	[8]
		What are the unified processes (UP) disciplines? Explain with diagrams.	[8]
3.	a)	Write and explain about artifacts in inception.	[8]
	b)	Explain and write the requirements for the case study 'monopoly game' in the	
		Use case model.	[8]
4.	a)	What are conceptual classes? How to find the conceptual classes.	[8]
	b)	How to create methods from interaction diagrams? Explain with examples.	[8]
5.	a)	Write and explain about principles, solution, examples, benefits, control	
		indication and relative pattern of fabrication in detail.	[8]
	b)	Write and explain about principle, structure, example, implementation, and	
		design issues and advantages of facade design pattern.	[8]
6.	a)	What are activity diagrams? Explain the symbols used in activity diagram with	
		examples.	[8]
	b)	What are the uses of deployment diagram? Explain the basic elements of a	
		deployment diagram with neat diagram?	[8]
		- · · · · · · · · · · · · · · · · · · ·	
7.	a)	Write and explain the design principles of package design.	[8]
	b)	Explain the include and extend relationships with example diagrams.	[8]