

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.	a)	Define the terms: disciplines, artifact and phase.	[3]
	b)	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]
		$\underline{PART}-\underline{B}(3x16=48 Marks)$	
2.	a)	What is UML? List and explain how the UML can be applied.	[8]
	b)	What are the unified processes (UP) disciplines? Explain with diagrams.	[8]
3.	a)	Write and explain about artifacts in inception.	[8]
	b)		507
		Use case model.	[8]
4.	,	What are conceptual classes? How to find the conceptual classes.	[8]
4.	,	What are conceptual classes? How to find the conceptual classes. How to create methods from interaction diagrams? Explain with examples.	[8] [8]
	b)	How to create methods from interaction diagrams? Explain with examples.	
	b)	How to create methods from interaction diagrams? Explain with examples.  Write and explain about principles, solution, examples, benefits, control	[8]
	<ul><li>b)</li><li>a)</li></ul>	How to create methods from interaction diagrams? Explain with examples.  Write and explain about principles, solution, examples, benefits, control indication and relative pattern of fabrication in detail.	
	b)	How to create methods from interaction diagrams? Explain with examples.  Write and explain about principles, solution, examples, benefits, control indication and relative pattern of fabrication in detail.  Write and explain about principle, structure, example, implementation, and	[8]
	<ul><li>b)</li><li>a)</li></ul>	How to create methods from interaction diagrams? Explain with examples.  Write and explain about principles, solution, examples, benefits, control indication and relative pattern of fabrication in detail.	[8]
5.	<ul><li>b)</li><li>a)</li><li>b)</li></ul>	How to create methods from interaction diagrams? Explain with examples.  Write and explain about principles, solution, examples, benefits, control indication and relative pattern of fabrication in detail.  Write and explain about principle, structure, example, implementation, and design issues and advantages of facade design pattern.	[8]
5.	<ul><li>b)</li><li>a)</li><li>b)</li></ul>	How to create methods from interaction diagrams? Explain with examples.  Write and explain about principles, solution, examples, benefits, control indication and relative pattern of fabrication in detail.  Write and explain about principle, structure, example, implementation, and	[8]
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<ul><li>5.</li><li>6.</li></ul>	<ul><li>b)</li><li>a)</li><li>b)</li><li>a)</li><li>b)</li></ul>	How to create methods from interaction diagrams? Explain with examples.  Write and explain about principles, solution, examples, benefits, control indication and relative pattern of fabrication in detail.  Write and explain about principle, structure, example, implementation, and design issues and advantages of facade design pattern.  What are activity diagrams? Explain the symbols used in activity diagram with examples.  What are the uses of deployment diagram? Explain the basic elements of a deployment diagram with neat diagram?  Write and explain the design principles of package design.	[8] [8] [8] [8] [8]
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