IV B.Tech I Semester Supplementary Examinations, March - 2017 UML & DESIGN PATTERNS

(Common to Computer Science & 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 THREE questions from Part-B *****

PART-A (22 Marks)

1.	a)	What are the various relationships used in UML?	[4]
	b)	What are three common use case formats?	[3]
	c)	"Is GRASP a set of patterns or principles". Justify the statement?	[3]
	d)	Write down principle involved in design pattern fabrication	[4]
	e)	How to apply activity diagrams in UML.	[4]
	f)	What is the relationship between aggregation and composition?	[4]
		$\underline{\mathbf{PART-B}}\left(3x16=48\ Marks\right)$	
2.	a)	What are your comments on "UML as programming language "? Explain.	[8]
	b)	What are the unified processes (UP) phases? Explain with the help of diagram.	[8]
3.	a)	How to write use cases in Inception, elaboration with examples.	[8]
	b)	What are the elements of supplementary specification?	[8]
4.	a) b)	What are the basic concepts of a sequence diagram? Explain with an example? What are use case realizations? Explain with use case realizations patterns?	[8]
5.	a)	What are creational patterns? Explain any one creational pattern with example.	[8]
	b)	Compare and contrast the structural and behavioral patterns.	[8]
6.	a)	How to apply state chart diagrams? Explain with examples.	[8]
	b)	What are the differences between component and deployment diagrams? What are the types of components in UML?	[8]
7.	a)	Explain about conceptual subclasses, conceptual super classes and abstract	ΓΩ-
	b)	conceptual classes in UML. Write a use case diagram for online railway reservation system.	[8]

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