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## Seventh Semester B.E. Degree Examination, Dec.09/Jan.10

## Software Architecture

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

		PART – A	8) E
1	a.	What is a grahitantum 1	
1 1	b.	25 " Excentional Outsiness Cycle	(07 Marks)
	c.	J ve boxerrate dicinicanne minimum.	
	v.	List all the common software architecture structures. Explain the components	at connector
		structure.	(10 Marks)
		-grade malifallmants (e.g. 1222)	(
2	a.	Explain the architecture styles based on:	
		1) Data abstraction and object-oriented organization	
	1.	11) Event-based, implicit invocation	(10 Manles)
	b.	What are the basic requirements for mobile robot architecture?	(10 Marks)
E)	C.	Explain the control loop solution for a mobile robot	(04 Marks)
		and the state of t	(06 Marks)
3	a.	What is availability? Explain the general scenario for availability.	
	b.	Classify security tactics. What are the different tactics for resisting attacks?	(10 Marks)
		attacks?	(10 Marks)
4	а	With neat diagrams, denict the desired the	ii.
,	b.	With neat diagrams, depict the dynamic behaviour of pipes and filters pattern.	(10 Marks)
	c.	What are the benefits of a layered pattern? Give the structure of blackboard with CRC cards.	(04 Marks)
		one structure of blackboard with CRC cards.	(06 Marks)
		PART - B	
5	a.	Explain the variants of broker architecture.	(10 3# )
	b.	Depict the dynamic behavior of MVC: with any one scenario	(10 Marks)
1 1 5	c.	Give the CRC cards for top level, intermediate level and bottom level PAC agents	(05 Marks)
	11	A agents	s. (05 Marks)
6	a.	Explain the benefits and habilities of microkernel pattern.	
	<b>b</b> .	Enumerate the implementation steps of reflection pattern.	(10 Marks)
		and steme on steps of tenection pattern.	(10 Marks)
7	a.	Give the atmosphere Co.L. I	
,	h.	Give the structure of whole port design pattern with CRC.	(05 Marks)
	c.	What are the application areas of master slave pattern? What are the variants of proxy pattern?	(10 Marks)
	•	mat are the variants of proxy pattern?	(05 Marks)
8	0	What	
O	a.	What are the three steps for choosing views for a project?	(06 Marks)
r	b.	Write a note on view catalog.	(04 Marks)
÷	c.	What are the options for representing connectors and systems in UML?	(10 Marks)
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