Eighth Semester B.E. Degree Examination, June/July 2017 **Software Architectures**

Time: 3 hrs. Max. Marks:100

Note: Answer any FIVE full questions, selecting

atleast TWO questions from each part.					
PART – A					
1	a.	Define software architecture. Explain the importance of software architecture in brid			
	b.	Explain the various activities that are involved in developing software based on arch	07 Marks) nitecture. 07 Marks)		
	c.	Define architectural patterns, reference models and reference architectures. Briefl			
2	a.	a. Enlist different architecture styles. Discuss in brief pipes and filters and implicit architectural styles.			
	b.	Explain the various design changes that need to be considered in the KWIC case stu	idy. 05 Marks)		
	c,	Identify the various inputs and outputs of cruise-control system and explain th	•		
3	a.	Explain quality attribute scenarios.	(04 Marks)		
	b.	What is availability? Explain the general scenario for availability.	08 Marks)		
	c.	Classify security tactics. What are the different tactics for resisting attacks?	(08 Marks)		
4	a.	Explain the structure of pipes and filters patterns with CRC cards.	(08 Marks)		
	b.	What are the benefits of layered patterns?	(04 Marks)		
	c.	Enumerate the implementation steps of blackboard architectural pattern.	(08 Marks)		
PART - B					
5			es of each		
		component.	(08 Marks)		
	b.	1	(08 Marks)		
	c.	List the benefits of PAC pattern.	(04 Marks)		

PART - B					
5	a.	Identify the components involved in broker architecture. Explain the resp	onsibilities of each		
		component.	(08 Marks)		
	b.	Explain the dynamic behavior of MVC pattern with one scenario.	(08 Marks)		
	c.	List the benefits of PAC pattern.	(04 Marks)		
6	a.	Explain the structural part of microkernel architectural pattern.	(08 Marks)		
	b.	List the forces associated with the problem of reflection system.	(06 Marks)		
	c.	Explain the benefits of reflection patterns.	(06 Marks)		
7	a.	Give the structure of whole part design pattern with CRC.	(07 Marks)		
	b.	What are the application areas of master slave pattern?	(06 Marks)		

(07 Marks) c. List the known uses and liabilities of proxy pattern. a. List the 3 steps of choosing views for a project. (05 Marks) 8

b. Write a note on ADD and its steps. (10 Marks) (05 Marks) c. List the steps in documenting a view for architecture.

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