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## Eighth Semester B.E. Degree Examination, Jan./Feb. 2021 Software Architecture

Time: 3 hrs.

Max. Marks:100

	Ma	te: Answer any FIVE full questions, selecting at least TWO questions from each p	art.
	140	le: Answer any 111 L juit questions, selecting at least 1110 questions from each p	
		PART – A	
1	a.	Explain how the software architectures affect the factors of influence. Explain ABC	2.
_			U8 Marks)
	b.	Explain the technical importance of software architectures. Further elaborate on the	e fact that
		architecture is the vehicle for stakeholder communication.	(07 Marks)
	c.	What is an allocation structure as applied to software architecture? Explain	the three
		allocation structures in practice.	(05 Marks)
(8)			
2	a.	Define the following with an example:  (i) Controlled variable  (ii) Set point  (iii) Open loop system	
		(1)	(10 Marks)
		(iv) Feedback control system (v) Feed forward control system State the problem of Key Word In Context (KWIC). Propose implicit invocation	
	b.	and filters style to implement a solution for the same.	(10 Marks)
		and filters style to implement a solution for the same.	,
3	a.	Define a quality attribute scenario. List the parts of such a scenario. Differentiate	e between
3	a.	availability and modifiability scenarios.	(08 Marks)
	b.	Explain how faults are detected and prevented.	(08 Marks)
	c.	Write short notes on Design Time Tactics.	(04 Marks)
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4	a.	With a neat diagram, explain the CRC cards for the pipes of filters architecture pa	ittern. List
		the components of a pipe and inters are partitional partition	(08 Marks)
	b.	Explain the forces that influence the solutions to problems based on blackboard par	(07 Marks)
			(05 Marks)
	c.	White a short note on the attention in a special.	
		PART – B	
5	a		(06 Marks)
	b.	With a suitable diagram, explain the possible dynamic behaviour of MVC pattern.	(09 Marks)
	c.	What are limitations of PAC pattern?	(05 Marks)
			(10 Mawks)
6	a.	List and explain the participating components of microkernel system.	(10 Marks)
	b.	What are the uses of reflection pattern?	(10 Marks)
_		List and explain the benefits of Master slave design pattern.	(06 Marks)
7	a.	List and explain the steps to implement a whole-part structure.	(08 Marks)
	b. c.	With a neat diagram, explain the typical dynamic scenario of proxy structure.	(06 Marks)
	C.	With a near diagram, or promise the types of the control of the co	
8	a.	List the steps of ADD.	(04 Marks)
U	b.	Write a note on creating a skeletal system.	(06 Marks)
	c.	What are the uses of architectural documentation? Bring out the concept of view	as applied
		to architectural documentation.	(10 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.