18MCA553

## Fifth Semester MCA Degree Examination, July/August 2022 **Software Architecture**

Time: 3 hrs. Max. Marks: 100

	N	lote: Answer any FIVE full questions, choosing ONE full question from each mod	dule.
		Module-1	
1	a.	What are the three kinds of structures involved in architectural design? Discuss.	(06 Marks)
	b.	What makes good architecture?	(10 Marks)
	c.	How a system's quality attributes can be enabled?	(04 Marks)
		OR 4	
2	a.	Explain the role of software architecture in early design decisions.	(05 Marks)
	b.	Discuss the implications of architecture in a Project-Life-Cycle.	(08 Marks)
	C.	Describe the influence of stakeholders on the architect.	(07 Marks)
		Module-2	
3	a.	How quality attributes can be achieved through tactics?	(08 Marks)
	b.	Discuss the general scenario with respect to availability.	(08 Marks)
	C.	Describe the taxonomy of systems of systems.	(04 Marks)
		OR	
4	a.	Explain the modifiability tactics.	(10 Marks)
7	b.	Discuss the general scenario of testability and usability.	(10 Marks)
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		Module-3	
5	a.	How performance of a model is analyzed? Explain.	(10 Marks)
	b.	Discuss the role of Thought Experiments and Back-of-the-Envelope analysis in	modeling
		the architecture.	(10 Marks)
		OR	
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6	a.	Explain the guidelines for the Agile Architect.	(10 Marks)
	b.	How ASRs are gathered by interviewing stakeholders?	(10 Marks)
		Module-4	
7	2	How architecture design is done using generate and test process?	(10 Marks)
1	a. b.	Explain the steps of Attribute Driver Design method.	(10 Marks)
	U.	Explain the steps of Attribute Driver Design method.	(10 Marks)
		OR	
8	a.	What is Module View? Explain the same with respect to it's properties.	(10 Marks)
U	b.	How views are chosen? Discuss.	(10 Marks)
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		Module-5	
9	a.	Explain the concept of Mud to structure with respect to layers.	(10 Marks)
	b.	How pipes and filters architecture is implemented? Discuss.	(10 Marks)

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	b.	How pipes and filters architecture is implemented? Discuss.	(10 Marks)

## OR

10	a.	Explain the steps involved in implementing Broker Pattern.	(10 Marks)
	b.	Discuss about model view controller architecture pattern.	(10 Marks)