

GBGS SCHEME

18MCA553

## Fifth Semester MCA Degree Examination, July/August 2021 Software Architecture

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

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1	a.	Define Software architecture. Explain the importance of Software architecture.	(07 Marks)
•	b.	What makes a "Good" architecture?	(06 Marks)
	c.	Define Structure. Explain different types of structures.	(07 Marks)
	٠.		
		Describe the activities involved in creating software architecture.	(07 Marks)
2	a.	Briefly explain the Stakeholders for a system.	(07 Marks)
		With neat diagram explain what do "architectures influence".	(06 Marks)
	C.	Willi fleat diagram explain what do are intectures influence .	
		1 i d C Vita attributo	a a a m a m i a
3	a.	Define quality attribute. With neat diagram explain the parts of a quality attribute	(10 Marks)
	1	Explain how faults are detected and prevented using availability tactics.	(10 Marks)
	b.	Explain now faults are detected and prevented using availability theres.	(2022
		The state of the s	(10 Marks)
4	a.	Explain tactics of performance quality attribute.  Explain security and usability tactics of detect attacks and support user initiative.	
	b.	Explain security and usability factics of detect attacks and support user interest.	(
			C
5	a.	List out parameters for analyzing performance. Explain queuing model for performance	ormance for
		model view controller.	(10 Marks)
	b.	With neat diagram explain redundancy tactics used to model an architecture for	(10 Marks)
			(101/12011)
			(10 M - 1)
6	a.	Explain how to gather ASRs by interviewing stakeholders.	(10 Marks)
	b.	Briefly explain relationship between business goals and an architecture. Exp	(10 Marks)
		express business goals.	(10 Marks)
7	a.	Explain in detail the steps involved in attribute driven design method.	(10 Marks)
	b.	Briefly explain the uses and notations of architectural documentation.	(10 Marks)
0		Explain the concept of view template applied to architectural documentation.	(10 Marks)
8	a. b.	Write a note on levels of testing, how an architecture plays a role in each phase.	(10 Marks)
	υ.	Write a note on levels of testing, he was a	
		1 1 4 2 2 Eveloin briefly how is it categorize	ed
9	a.	What do you mean by Architectural patterns? Explain briefly how is it categorize	(10 Marks)
	1	Briefly explain implementation approach of layered architecture.	(10 Marks)
	b.	Briefly explain implementation approach of tayorea are more and	
			lition of each
10	a.	Identify the components involved in broker architecture. Explain the responsibi	(10 Marks)
		component.	(10 Marks)
	b.	Discuss the structure of Model-view controller pattern.	(20.2422)

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