## **GUJARAT TECHNOLOGICAL UNIVERSITY**

Cubi	oot C	MCA – SEMESTER – 5 • EXAMINATION – SUMMER 2018 ode: 2650001 Date: 30-Apr-2018	
U		ode: 2650001 Date: 30-Apr-2018 ame: Software Engineering (SE)	
•		30 am to 1.00 pm Total Marks: 70	
Instru		•	
	2. M	ttempt all questions. Iake suitable assumptions wherever necessary. igures to the right indicate full marks.	
Q.1	(a)	Explain the followings:	14
		i) Software engineering	
		ii) Framework	
		iii) Stakeholder	
		iv) Characteristics of the software	
		v) Software process	
		vi) Umbrella activities	
		vii) Work breakdown structure	
Q.2	(a)	Explain Agile Development in detail.	07
	<b>(b)</b>	What is prototype? Under what circumstances is it beneficial to construct a prototype? Does construction of a prototype always increase the overall cost	07
		of software development?	
	(L.)	OR	0.7
	<b>(b)</b>	Explain why the spiral life cycle model is considered to be a meta model.	07
Q.3	(a)	List and explain the requirement engineering task.	07
	<b>(b)</b>	Prepare a scenario and draw use case diagram of ATM.	07
		OR	
Q.3	(a)	What is SRS? Explain the need of SRS and List the five desirable characteristics of good SRS document.	07
	<b>(b)</b>	Prepare a scenario and draw use case diagram of issue a book of a library	07
	· /	management system.	
Q.4	(a)	What do you mean by the terms cohesion and coupling in the context of software design? How are these concepts useful in arriving at a good design of a system?	07
	<b>(b)</b>	Explain the architectural styles and pattern in detail.	07
	` /	OR	
Q.4	(a)	List and explain the design concepts in detail.	07
	<b>(b)</b>	What is a component? Explain about designing class-based components.	07
Q.5	(a)	Explain the golden rules in user interface design.	07
	<b>(b)</b>	Explain acceptance testing and beta testing.	07
		OR	
Q.5	(a)	What is design in the context of web engineering? Explain the WebE design pyramid.	07
	<b>(b)</b>	What is the Management spectrum in term of the people, the product, the process, and the project?	07

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