Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VI (NEW) EXAMINATION – WINTER 2017

Subject Code: 2160701 Date: 03/11/2017

Subject Name:Software Engineering

Time:02:30 PM TO 05:00PM Total Marks: 70

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

			MARKS
Q.1*	**(a)**	Compare prototype and RAD model.	**03**
	(b)	Explain Agile Development in detail.	**04**
	(c)	Enlist characteristic of SRS.Write a SRS for Hospital management system.	**07**
Q.2	**(a)**	Explain Software engineering as a Layered technology.	**03**
	(b)	Explain the merits and demerits of SCRUM.	**04**
	(c)	Explain Software metrics used for software cost estimation.	**07**
		OR	
	(c)	Write a short note on Requirement Engineering.	**07**
Q.3	**(a)**	Describe golden rules of User Interface Design.	**03**
	(b)	What is activity diagram and Swim-lane? Draw activity diagram for billing Counter of a shopping mall.	**04**
	(c)	Write short notes on COCOMO model.	**07**
		OR	
Q.3	**(a)**	State the difference between procedural Design and Object Oriented Design.	**03**
	(b)	Compare Coupling and Cohesion. Explain different types of Coupling and its effects on software modules	**04**
	(c)	What is architectural design? Enlist different style and patterns of architecture.	**07**
Q.4	**(a)**	Compare quality control with quality assurance.	**03**
	(b)	Explain the process model which is normally suits for development of large-scale software system.	**04**
	(c)	List set of guidelines for BVA.Also Explain merits and demerits of BVA.	**07**
		OR	
Q.4	**(a)**	Write short notes on Reengineering.	**03**
	(b)	List quality standards. Explain any one.	**04**
	(c)	Explain White Box Testing With an Example.	**07**
Q.5	**(a)**	Explain CASE tools and its use in Software Engineering.	**03**
	(b)	Write short notes on Reverse Engineering	**04**
	(c)	What is Risk Management? Explain RMMM plan.	**07**
		OR	
Q.5	**(a)**	What is Cyclomatic complexity? Define Steps to find Cyclomatic complexity using flow graph.	**03**
	(b)	Explain Software Project management and W5HH principle	**04**
	(c)	Explain Software as a Service (SaaS). Give its applications	**07**

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