Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

ME SEMESTER II EXAMINATION – SUMMER 2017

Subject Code: 2720211 **Date:30/05/2017**

Subject Name: Software Project management

Time:02:30 PM to 05:00 PM **Total Marks: 70**

Instructions:

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

Q.1	**(a)**	Differentiate Project Maintenance Life Cycle with Software Development Life Cycle.	**07**
	(b)	Explain data flow and transaction flow testing. Draw E-R Diagram DFD Level-0 and Level-1for Library management system.	**07**
Q.2	**(a)**	Explain any seven quality principles defined by Dr. W. Edwards Deming's.	**07**
	(b)	Explain quantitative techniques for project monitoring and control.	**07**
		OR	
	(b)	Explain configuration management process.	**07**
Q.3	**(a)**	What is the difference between client-server testing and web based testing and what are things that we need to test in such applications?	**07**
	(b)	Explain people capability maturity model.	**07**
		OR	
Q.3	**(a)**	What are the steps in software Project Planning? What is effort estimation?	**07**
	(b)	What is Software Re-engineering, and also explain the differences between the Re-engineering and Reverse Engineering.	**07**
Q.4	**(a)**	What is Software Reliability? Compare testing and White Box testing in software product.	**07**
	(b)	Explain steps involved in internal benchmarking.	**07**
		OR	
Q.4	**(a)**	What is fault tolerance in Software Engineering? Also, Explain Fault Tolerance architecture in detail.	**07**
	(b)	Explain the roles and responsibility of a Team Leader, and also Explain the criteria for selecting a good software project Team.	**07**
Q.5	**(a)**	Define Verification and Validation. Explain the differences between the two.	**07**
	(b)	Explain test strategies for object oriented system.	**07**
		OR	
Q.5	**(a)**	Explain various attributes of measures and their association with RFP process & risk management	**07**
	(b)	Define Software Quality Assurance (SQA) and explain SQA activities.	**07**

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