Seat 1	No.: _	Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY M. E SEMESTER – II • EXAMINATION – WINTER • 2013	
Subject code: 725302 Date: 27-12		code: 725302 Date: 27-12-2013	
Subj	ect ]	Name: System Development Methodology	
		0.30 am – 01.00 pm Total Marks: 70	
Inst	ruct	ions:	
	1. 2. 3.	Answer any <u>FIVE</u> questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain concepts of good design in appropriate sequence? What Best practices should be followed during Software Development?	[7] [7]
Q.2	(a) (b)	List and Explain principal activities of a modern quality system. Explain "Spiral Model" with suitable diagrams. Explain advantages and limitations of this model. For which kind of project Spiral Model is useful and why.	[7] [7]
Q.3	(a) (b)	Explain in details about Critical Chain Project Management.  Mentions four Goals of Software Engineering and Explain	[7] [7]
Q.4		Explain ISO and all of its 9000 series certification. What is CMM model? Explain each levels of CMM. Explain relative merits of ISO 9001 certification and the SEI CMM based quality assessment.	[14]
Q.5	(a)	Explain following things about Risk Management.  i) What is Risk?  ii) Explain the Risk management life cycle.	[7]
	(b)	·	[7]
Q.6	(a)	Explain Use-Case Model with all its elements and their interrelations.	[7]

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(b) Explain the Sequence and Collaboration Diagrams for the University

(a) Explain the following 4 techniques for generating 'White Box' Test cases. i. Statement Coverage

(b) Draw and Explain the "V-Model" of Software Testing

Management System.

ii. Decision Coverageiii. Condition Coverage

iv. Loop Testing

**Q.7** 

[7]

[7]

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