Seat	No.: _	Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY	
Sub	iect (	M.C.A SEMESTER – V • EXAMINATION – WINTER 2012 code: 650001 Date: 12-01-2013	
Subject Name: Software Engineering (SE)			
7	-	2:30 am – 1:00 pm Total Marks: 70	
Inst	ruct	ions:	
		Attempt all questions.	
		Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Ο 1			07
Q.1	(a)	Write a short note on Incremental Process Model. How does it differ from prototype evolutionary process model?	07
	<b>(b)</b>	Write a short note on coupling and cohesion.	07
Q.2	(a)	Differentiate between White Box Testing and Black Box Testing. Explain	07
	<b>(L.)</b>	Equivalence Partitioning Method.	07
	<b>(b)</b>	List the questions addressed during the validation of requirements.  OR	07
	<b>(b)</b>	Explain Use Case, Sequence and Activity diagrams taking any suitable	07
		example (For example, Issue of book in Library System).	
Q.3	(a)	1. Discuss call and return software architecture.	04
	<b>(b)</b>	<ul><li>2. Discuss the importance of reviews in software process</li><li>1. What do you mean by abstraction in software design? Explain in brief</li></ul>	03 04
	(6)	procedural abstraction and data abstraction.	VŦ
		2. What is modularity in software design? How does it affect the software	0.2
		cost?	03
Q.3	(a)		03
	<i>a</i> )	2. What are the characteristics of an effective design pattern?	04
	<b>(b)</b>		07
<b>Q.4</b>	(a)	<ol> <li>List any eight agility principles.</li> <li>Differentiate between customers and end users</li> </ol>	04 03
	<b>(b)</b>	<ol> <li>Write a short note on table design notation.</li> </ol>	03
		2. Discuss design pyramid for WEBAPPS (web applications)	03
Q.4	(a)	OR Write a short note on test strategies for WEBAPPS (web applications).	07
Q.4	(b)	What do you mean by product metrics? Also discuss architectural design	07
		metrics.	
Q.5	(a)	Explain in brief unit testing, integration testing, and validation testing in object	07
	<b>(b)</b>	oriented context.  1. Discuss in brief following common software design issues: Response Time,	04
	(0)	Help Facilities, Error Handling, and Menu and command labeling.	<b>U</b> -1
		2. Write a brief note on Time Line Chart for software project scheduling.	03
Q.5	(a)	OR 1. What do you mean by regression testing?	03
<b>V.</b> 2	(u)	<ol> <li>What are the different ways to achieve reliable cost and effort estimates of</li> </ol>	03
	(1.)	software project?	02
	<b>(b)</b>	1. What do you mean by representing the system in context during	03

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architectural design?

2. Differentiate between alpha and beta testing.

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