C ANT	T 1 ANI
Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B. E. - SEMESTER - VI • EXAMINATION - WINTER 2012

Subject code: 160701		Date: 02/01/2013		
	•	t Name: Software Engineering		
Time: 02.30 pm - 05.00 pm		Γotal Ma	arks: 70	
In	stru	ctions:		
	2	 Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 		
Q.1	(a)	What is Software Engineering? What is the role of software of Compare Hardware and Software product characteristic.	engineer (07
	(b)	Explain Spiral Model and its advantages. Compare Prototype Model and Spiral Model.	(07
Q.2	(a)	Explain Feasibility Study with the example of ATM Machine Banking System. Draw use case diagram of ATM Machine.	e in (07
	(b)	How to Collect requirement? Explain different methods to Collect requirement. What is its importance in Software Engi OR		07
	(b)	List five requirement of Library management System. Draw DFD lavel-0 and DFD Level-1 for Library Management System.		07
Q.3	(a)	What is Software Measurement? How to Calculate Cost of Software? Explain Software metrics used for S/w cost estimated		07
	(b)	Compare: Coupling and Cohesion. Explain Different types o Coupling and its effect on software modules.		07
Q.3	(a)	OR What is the importance of User Interface? Explain User Interface Design Rules with examples.	(07
	(b)	Explain Software Quality Assurance and its importance. Also Different CMM Level.	Explair (07
Q.4	(a)	What is Software testing? What is the role of software tester? Compare: Black box testing and White Box testing	(07
	(b)	What is Software Reliability? What is the role of software Maintenance in Software Product? OR	(07
Q.4	(a)	Explain: Unit testing, cyclomatic complexity and Load testing	ng (07
	(b)	What is Risk Management? Explain RMMM plan.	_	07
Q.5	(a)	Explain Software Project Management and W5HH Principle.	(07
	(b)	Explain Functional Requirement and Non Functional Require with example of Hospital Management System OR		07
Q.5	(a)	What are CASE tools? Explain its importance in SE.	(07
`	(b)	Explain Functional Requirement and Non Functional Require with example of Mobile Device		07
