## **GUJARAT TECHNOLOGICAL UNIVERSITY** B. E. - SEMESTER – VI • EXAMINATION – WINTER 2012

Subject code: 160701 Subject Name: Software Engineering		Date: 02/01/2013	
		Marks: 70	
<ol> <li>Instructions:         <ol> <li>Attempt any five questions.</li> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> </ol> </li> </ol>			
(a)	6 6	eer 07	
(b)	Explain Spiral Model and its advantages. Compare Prototype Model and Spiral Model.	07	
(a)	Explain Feasibility Study with the example of ATM Machine in Banking System. Draw use case diagram of ATM Machine.	07	
(b)		07 ng?	
(b)	List five requirement of Library management System. Draw DFD lavel-0 and DFD Level-1 for Library Management System.	07	
(a)	What is Software Measurement? How to Calculate Cost of Software? Explain Software metrics used for S/w cost estimation	07	
(b)	Compare: Coupling and Cohesion. Explain Different types of Coupling and its effect on software modules.	07	
(a)		07	
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(b)		air 07	
(a)	What is Software testing? What is the role of software tester?	07	
(b)	What is Software Reliability? What is the role of software Maintenance in Software Product?	07	
(a)	-	07	
(b)	What is Risk Management? Explain RMMM plan.	07	
(a)	Explain Software Project Management and W5HH Principle.	07	
(b)	· · · · ·		
	OR		
(a)	What are CASE tools? Explain its importance in SE.	07	
(b)	with example of Mobile Device	07	
	bjec me: stru (a) (b) (a) (b) (a) (b) (a) (b) (a) (b) (a) (b) (a) (b) (a) (b) (a) (b) (a) (b) (a) (b) (b) (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	<ul> <li>bject Name: Software Engineering me: 02.30 pm - 05.00 pm Total structions: <ol> <li>Attempt any five questions.</li> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> </ol> </li> <li>(a) What is Software Engineering ? What is the role of software engine Compare Hardware and Software product characteristic.</li> <li>(b) Explain Spiral Model and its advantages. Compare Prototype Model and Spiral Model.</li> <li>(a) Explain Feasibility Study with the example of ATM Machine in Banking System. Draw use case diagram of ATM Machine.</li> <li>(b) How to Collect requirement? Explain different methods to Collect requirement of Library management System. Draw DFD lavel-0 and DFD Level-1 for Library Management System.</li> <li>(a) What is Software Measurement? How to Calculate Cost of Software? Explain Software metrics used for S/w cost estimation.</li> <li>(b) Compare: Coupling and Cohesion. Explain Different types of Coupling and its effect on software modules. OR</li> <li>(a) What is the importance of User Interface? Explain Software Quality Assurance and its importance. Also Expl Different CMM Level.</li> <li>(a) What is Software testing? What is the role of software tester? Compare: Black box testing and White Box testing</li> <li>(b) What is Software Reliability? What is the role of software Maintenance in Software Product? OR</li> <li>(a) Explain Software Reliability? What is the role of software Maintenance in Software Product? OR</li> <li>(a) Explain Software Project Management and WoFHH Principle.</li> <li>(b) What is Risk Management? Explain RMMM plan.</li> <li>(a) Explain Software Project Management and Nor Functional Requirement with example of Hospital Management System OR</li> <li>(a) What are CASE tools? Explain its importance in SE.</li> <li>(b) Explain Functional Requirement and Non Functional Requirement</li> </ul>	