GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–VI (OLD) EXAMINATION – WINTER 2018

Subject Code:160701   **Date: 07/12/2018**

Subject Name: Software Engineering

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)**	Explain the process model which is suitable only for well-understood problems.	**07**
	(b)	List set of guidelines for formal technical reviews	**07**
Q.2	**(a)**	Explain the W^5HH principle	**07**
	(b)	Explain Spiral model with suitable example.	**07**
		OR	
	(b)	Describe integrated CASE Environment.	**07**
Q.3	**(a)**	What is SRS? Why SRS is known as black-box specification of the system? What are major issues addressed by SRS?	**07**
	(b)	What do you mean by risk? What is software risk? Explain all type of Software risk.	**07**
		OR	
Q.3	**(a)**	Explain Functional Requirement and Non Functional Requirement with example of Hospital Management System	**07**
	(b)	What is Software Measurement? How to Calculate Cost of Software? Explain Software metrics used for S/w cost estimation.	**07**
Q.4	**(a)**	Define module coupling. Explain different types of coupling.	**07**
	(b)	Prepare a state diagram for Microwave Oven showing all states of it.	**07**
		OR	
Q.4	**(a)**	Define module cohesion. Explain different types of cohesion.	**07**
	(b)	What is activity diagram and swim-lane diagram? Draw activity diagram for Billing Counter of a shopping mall.	**07**
Q.5	**(a)**	Develop a complete use cases for the system which is known to you.	**07**
	(b)	What are different levels of testing and the goals of the different levels?	**07**
		OR	
Q.5	**(a)**	What is the importance of User Interface? Explain User Interface Design Rules with examples.	**07**
	(b)	Explain software testing strategy for conventional software architecture. Draw the spiral diagram showing testing strategies with phases of software development.	**07**

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