GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER– VI EXAMINATION – SUMMER 2020

Subject Code: 2160701   **Date:26/10/2020**

Subject Name: SOFTWARE ENGINEERING

Time: 10:30 AM TO 01:00 PM   **Total Marks: 70**

Instructions:
    1. **Attempt all questions.**
    2. **Make suitable assumptions wherever necessary.**
    3. **Figures to the right indicate full marks.**

			MARKS
Q.1	**(a)**	Explain the following Terms: i) Process ii) Product iii) Software Engineering	**03**
	(b)	Define feasibility study. Enlist and explain the contents to be included in the feasibility study report.	**04**
	(c)	Explain the different phases of Waterfall model.	**07**
Q.2	**(a)**	Explain RAD model in detail.	**03**
	(b)	Explain steps involved during the prototyping.	**04**
	(c)	Define cohesion. Explain different types of cohesion.	**07**
		OR	
	(c)	Explain Risk Management. Explain RMMM plan.	**07**
Q.3	**(a)**	Define the terms. i) Data Dictionary ii) Software Quality Assurance iii) Cardinality, Modality	**03**
	(b)	Define Generalization. Explain with example.	**04**
	(c)	What is the importance of User Interface? Explain User Interface Design rules.	**07**
		OR	
Q.3	**(a)**	Define the terms. i) Process framework ii) SRS iii) System Flow Diagram	**03**
	(b)	Describe CASE building block.	**04**
	(c)	Explain all phases involved in the implementation phase.	**07**
Q.4	**(a)**	List the principles of Software Design.	**03**
	(b)	Explain 4 P's of effective Project Management in detail.	**04**
	(c)	Explain Software Configuration Management (SCM) process in detail.	**07**
		OR	
Q.4	**(a)**	Distinguish between verification and validation.	**03**
	(b)	Explain project scheduling and tracking.	**04**
	(c)	List and explain different types of testing done during testing phase.	**07**
Q.5	**(a)**	Define the terms. i) Coupling ii) Refactoring iii) Cyclomatic Complexity	**03**
	(b)	Explain COCOMO model for project estimation.	**04**
	(c)	Write short note on reverse engineering.	**07**

OR

Q.5   **(a)**   Explain Software as a Service (SaaS).   **03**

     (b)   Define mobile testing? Enlist and explain the challenges in mobile testing.   **04**

     (c)   List set of guidelines for BVA. Also Explain merits and demerits of BVA.   **07**

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