GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED – SEMESTER VI –EXAMINATION – SUMMER 2018

Subject Code: 4460602   **Date:03/05/2018**
Subject Name: Software Engineering (SE)
Time: 10:30 AM To 1:00 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)**	Define the following terms 1. Patterns 2. Refactoring 3. Time-Line-Chart 4. Metrics 5. Aesthetic Design 6. Debugging 7. PDL	**07**
	(b)	List the names of Evolutionary Models. Why are they considered the best approach to software development in a modern context?	**07**
Q.2	**(a)**	What is the importance of Communication activity in SE? Discuss the communication principles in detail.	**07**
	(b)	List and discuss Agile process models. What are the primary advantages of it in software engineering?	**07**
		OR	
	(b)	(i) List out the agility principles.	**04**
		(ii) Write short note on Scrum.	**03**
Q.3	**(a)**	What is requirement engineering? Describe the seven distinct tasks encompassed in requirement engineering.	**07**
	(b)	What is Software Architecture? Discuss Architecture Style in Detail.	**07**
		OR	
Q.3	**(a)**	Explain: Design Concepts. How it is useful in software development.	**07**
	(b)	What are the elements of Analysis model? Briefly write about Scenario-based model with suitable example.	**07**
Q.4	**(a)**	Explain: Glass Box Testing and how it is different from black box testing.	**07**
	(b)	What is a component? Explain three views of the component.	**07**
		OR	
Q.4	**(a)**	What is Integration Testing? Describe in detail top-down and bottom-up Integration Testing.	**07**
	(b)	State and explain the three golden rules that form the basis of interface design.	**07**
Q.5	**(a)**	What is W5HH principle? Explain in detail.	**07**
	(b)	Compare the two types of technical review and explain each in detail.	**07**
		OR	
Q.5	**(a)**	Explain the content testing for WebApps.	**07**
	(b)	Discuss Problem-based Estimation with examples.	**07**

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