Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA INTEGRATED - SEMESTER–VI EXAMINATION – SUMMER – 2016

Subject Code: 4460602 **Date: 06/05/2016**

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.**

Q.1	**(a)**	Define the following terms : (a) Abstraction (b) Open-Closed Principle (c) Agility (d) Formal Technical Review (e) Measures and Metrics (f) Time-Line Chart (g) Refactoring	**07**
	(b)	Compare prescriptive and evolutionary models and state which model is better?	**07**
Q.2	**(a)**	Discuss XP with its stages. Also show the issues faced with XP.	**07**
	(b)	Write construction principles and testing principles in detail.	**07**
		OR	
	(b)	State design concepts through which sophisticated design methods can be applied.	**07**
Q.3	**(a)**	Explain three golden rules that form the basis of interface design in detail.	**07**
	(b)	Compare the 2 types of technical review and explain each in detail.	**07**
		OR	
Q.3	**(a)**	Explain Architectural Styles in detail.	**07**
	(b)	Describe the design model with a neat diagram.	**07**
Q.4	**(a)**	Consider that your friend has developed a software project and now it is to be thoroughly tested by a team of Independent Group Testers. You are one of the major tester of IGT. With the same context, plan all the testing strategies required, review all the testing strategies and devise a mechanism for test cases.	**07**
	(b)	Discuss White Box Testing strategies in detail.	**07**
		OR	
Q.4	**(a)**	What is system testing? Explain all its types in detail.	**07**
	(b)	Explain Navigation testing for Web apps.	**07**

Q.5	**(a)**	What do you understand by empirical estimation models? Write COCOMO II model giving suitable example.	**07**
	(b)	Describe function-point metric for requirement modeling.	**07**

OR

Q.5	**(a)**	Explain Concept of 4P.	**07**
	(b)	What is project scheduling? Explain basic principles and the effort distribution in scheduling a project.	**07**

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