GUJARAT TECHNOLOGICAL UNIVERSITY MCA - SEMESTER-V • EXAMINATION – SUMMER 2016

Subject Code: 650001 Date:04			4-05-2016	
Subject Name: Software Engineering Time: 10.30am to 01.00 pm Total Mar Instructions:		0.30am to 01.00 pm Total Marks: 7	' 0	
	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1		 Explain the following terms in brief. 1) Agile Process 2) Abstraction 3) Modularity 4) Measures and Metrics 5) Time line charts 6) Open closed principle for component level design 7) Verification and Validation 	14	
Q.2	(a)		07	
	(b)	using it as process model for software development. List the XP values and explain XP process for agile development OR	07	
	(b)	List the validation principles and explain Testing principles in detail.	07	
Q.3	(a) (b)		07 07	
Q.3	(a) (b)	Describe various Architectural styles for software architectural design. Explain Formal technical review for quality control of software.	07 07	
Q.4	(a)	Write short note on:1) Coupling2) Cohesion	07	
	(b)	Explain the three golden rules for user interface design. OR	07	
Q.4	(a)	Write short note on:1) Pattern languages and repositories2) Pattern organizing table	07	
	(b)	List various technical attributes for webapp design quality, and explain content architecture for webapp design in detail.	07	
Q.5	(a)	Give the difference between White box testing and Black box testing. Explain Control structure testing for conventional applications in brief.	07	
	(b)	Explain Random testing and Partition testing at the class level for object- oriented applications.	07	
05	(a)	OR What is the objective of security testing? Explain various aspects of security	07	

Q.5 (a) What is the objective of security testing? Explain various aspects of security testing and options to protect against these vulnerabilities for web applications.

(b) Explain the Function point (FP) metric used for measuring the functionality 07 delivered by a system, in detail.
