GUJARAT TECHNOLOGICAL UNIVERSITY MCA Integrated - SEMESTER-VI • EXAMINATION – SUMMER - 2017

Subject Name: Software Engineering			te: 02/05/2017 otal Marks: 70	
Q.1	(a)	 Explain the following terms : a) OCP b) Agile Process c) Component Based Software Engineering (CBSE) d) ASD e) Alpha and Beta Testing f) Archetypes g) Time-Line Chart 	07	
	(b)	Explain waterfall and spiral process model. List the differences between them.	07	
Q.2	(a)	What is requirement engineering? Describe the seven distinct tasks	07	
	(b)	encompassed in requirement engineering. List five functional requirement of hotel management system. Draw DFD level- 0 and DFD level-1 for the same.	07	
		OR		
	(b)	Explain core principles that guide the software process of software engineering.	07	
Q.3	(a)	Explain human factors that may affect in agile software development.	07	
	(b)	Explain the types of cohesion and coupling OR	07	
Q.3	(a) (b)	Explain Architecture Design from Design pyramid for WebApp. What is function based metrics? Explain in detail.	07 07	
Q.4	(a) (b)	 State and explain the three golden rules that form the basis of interface design. 1) Write a short note on Formal Technical Review (FTR). 2) Explain any one category of Architecture style OR 	07 04 03	
Q.4	(a) (b)	What is white box testing? Discuss basis path testing in detail. Describe the set of goals that are applicable to WebApp design.	07 07	
Q.5	(a) (b)	Explain unit testing and integration testing with suitable examples. What is W5HH principle in project management	07 07	
Q.5	(a) (b)	OR Explain COCOMO II model of software estimation. List the Fundamental design concepts. Discuss modularity and functional independence	07 07	
