Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER- V EXAMINATION - WINTER 2015

Subject Code:2650001			Date:01/12/ 2015	
Ti	me:1	t Name: Software Engineering 0.30 am to 01.00 pm Total Marks: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.	70	
Q.1	(a)	i. List the names of Evolutionary Models. Why are they considered the best approach to software development in a modern context?	04	
	(b)	ii. Describe the three key assumptions regarding software projects that every agile software process must address.What is an analysis Patterns? What are the benefits of using analysis patterns during the modeling process? Suggest analysis pattern for the Internet browser.	03	
Q.2	(a)	List the types of models that might be used in requirements modeling and	07	
	(b)	explain the role of each type of model. List and discuss Agile process models. What are the primary advantages of it in software engineering?	07	
	(b)	OR Explain how a process specification (PSPEC) differs from a control specification (CSPEC).	07	
Q.3	(a)	i. How does the object-oriented view of component-level design differ from the traditional view?	04	
	(b)	ii. Describe the principle of information hiding as it applies to software design.i. Explain how effective modular design is achieved through functional independence of the individual modules?ii. List and define content architectures found in WebApps?	03 04 03	
Q.3	(a) (b)	List and Discuss all types of systems testing. Differentiate Transaction and Transform mapping. How is a transaction center different from a transform center in a data flow diagram?	07 07	
Q.4	(a) (b)	What is Design Pattern? Discuss different types of design pattern. What is a formal technical review and why is one conducted? Outline the steps required to conduct a successful FTR? OR	07 07	
Q.4	(a) (b)	What is behavior testing? List and discuss each technique of this testing. What are the objectives for content testing? List the steps used in a WebApp testing strategy.	07 07	
Q.5	(a)	Discuss empirical estimation models. Explain COCOMOII model giving	07	
	(b)	suitable example. Discuss interface design issues present in the development of most user interfaces and list the characteristics of effective design patterns. OR	07	
Q.5	(a)	List activities in the Webapp design pyramid and what are the primary design objectives of a WebApp interface? Discuss each activity in brief.	07	
	(b)	Describe the five activities associated with the software measurement process. List the principles to characterize and validate metrics.	07	

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