GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER- VI (Old) EXAMINATION - WINTER 2019Subject Code: 160701Date: 13/12/2019Subject Name: Software Engineering Time: 02:30 PM TO 05:00 PMTotal Marks: 70Instructions:1. Attempt all questions.1. Attempt all questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.			
Q.1	(a) (b)	Using example explain Spiral model and Software Prototyping. Explain software engineering as a layered technology.	07 07
Q.2	(a)	Compare the advantages of function oriented and object oriented approaches to software design.	07
	(b)	Explain the significance of User Interface (UI) in a system. Also explain the design model for UI.	07
	<b>(b</b> )	What is Cyclomatic Complexity? Explain with example how to find cyclomatic complexity using flow graph.	07
Q.3	(a) (b)	Explain cardinality and modality with Examples. Define Testing. What are different levels of testing and goals of different levels?	07 07
Q.3	(a) (b)	Write and explain possible reasons for project failure. Explain five levels of SEI-CMM.	07 07
Q.4	<b>(a)</b>	How unit testing strategy works on a software module? What errors are commonly found during unit testing?	07
	(b)	Explain incremental model for system development. Differentiate it with spiral model.	07
Q.4	(a)	Define modified coupling and cohesion. Explain different types of coupling and cohesion.	07
	(b)	Define WUR Ps for project management and explain them in detail.	07 07
Q.5	(a) (b)	Write a short note on Reverse Engineering. Write and explain briefly possible reasons for project failure. <b>OR</b>	07 07
Q.5	(a)	Explain with example how the overall cost of the project and duration of development can be decided using COCOMO.	07
	(b)	What is Software Quality Assurance? Explain various factors that affect Software Quality.	07

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