GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- VI (NEW) EXAMINATION - WINTER 2021				
Subject Code:2160701 Date:24/11/2021				
Subject	Nan	ne:Software Engineering		
Time:10:30 AM TO 01:00 PM Total Marks: 70				
Instructions:				
1. 2.	 Attempt all questions. Make suitable assumptions wherever necessary. 			
2. 3.		Figures to the right indicate full marks.		
4.	0	ple and non-programmable scientific calculators are allowed.		
Q.1	(a)	Differentiate between alpha and beta testing.	03	
	(b)	Compare and contrast Water fall, Incremental, RAD and Spiral process model.	04	
	(c)	Which model is best for risk driven program? Explain in detail?	07	
Q.2	(a)	Discuss Scrum and Sprint in detail.	03	
	(b)		04	
	(c)	What is Requirement Engineering? List the Functional and Non Functional requirement for Digital Gujarat web portal.	07	
	(c)	What is extreme programming? How do you use it for development of mission	07	
	(C)	critical software application?	07	
Q.3	(a)	List Quality Standards. Explain any one.	03	
	(b)	Explain project scheduling and tracking.	04	
	(c)	What is Cyclomatic complexity? Define Steps to find Cyclomatic complexity	07	
		using flow graph.		
Q.3	(a)	Describe golden rules of User Interface Design.	03	
-	(b)	Explain the following term in brief	04	
		1) Re-Engineering 2) Reverse Engineering 3) BVA 4) SaaS		
	(c)	What is Useronterface? Explain the design rules for UI.	07	
Q.4	(a)	Explain CASE tools and its use in Software Engineering.	03	
C C	(b)	Define Risk Management and elaborate RMMM plan.	04	
	(c)	What is the importance of SQA? Explain the SQA activities OR	07	
Q.4	(a)	Explain different CMM levels.	03	
Ľ	(b)	Explain Software Project management and W5HH principle	04	
	(c)	Write short notes on COCOMO model.	07	
Q.5	(a)	The WebE process model.	03	
	(b)	List out various coding standards and briefly explain any four.	04	
	(c)	Write a short note on Component-Based Software Engineering. OR	07	
Q.5	(a)	Write a difference between Validation v/s Verification	03	
-	(b)	Explain Version and Change Control Management.	04	
	(c)	Write a short note on Software Configuration Management.	07	

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