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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2018			
Subject Code:2153202 Date:16/1			/2018
Subject Name:Software Engineering			
Time: 10:30 AM TO 01:00 PMTotal Marks: 70			ks: 70
Instructions:			
		Attempt all questions.	
		Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
			MARKS
Q.1	(a)	Explain Software Characteristics in detail.	03
Ľ	(b)	Define Software Engineering. Draw and explain Software Engineering layers.	04
	(c)	Explain various categories of Software in Detail.	07
Q.2	(a)	Compare Waterfall Model and Spiral Model in Software Engineering.	03
	(b)	Explain Spiral Model in Detail. State its Advantages and Disadvantages.	04
	(c)	Discuss umbrella activities and its role in software development life cycle (SDLC).	07
		OR	
	(c)	Explain different tasks of Project Manager in Detail.	07
Q.3	(a)	Explain Different Metrics –Size, Functional and complexity	03
-	(b)	Discuss all process Framework activities of Software Engineering.	04
	(c)	Explain W5HH Principle in detail.	07
0.2	(\mathbf{a})	OR What is System testing and Baseyery Testing?	02
Q.3	(a) (b)	What is System testing and Recovery Testing? Explain Cohesion and Coupling for Software Design.	03 04
	(D) (C)	Define FOUR Ps for project management and explain them in detail.	07
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Q.4	(a)	Explain Alpha and Beta Testing in detail	03
	(b)	Prepare ER diagram for Payroll Management System.	04
	(c)	What is Importance of User Interface? Explain Concept of UI. OR	07
Q.4	(a)	Differentiate Reactive Vs Proactive Risks.	03
	(b)	Describe the difference between risk components and risk drivers.	04
	(c)	What is Risk Management? Explain RMMM plan.	07
Q.5	(a)	Explain Scheduling with Time line chart.	03
C C	(b)	Prepare DFD for Library Management System.	04
	(c)	What is Software Quality Assurance? Explain various factors that affect Software Quality	07
		OR	
Q.5	(a)	What are the steps in software Project Planning? What is effort estimation?	03
	(b)	Prepare DFD for Employee Attendance System	04
	(c)	What do you mean by debugging? Explain various debugging approaches.	07
