GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) EXAMINATION – WINTER 2018 Subject Code:2160701 Date:16/11/2018						
U Company of the Comp						
Subject Name:Software Engineering Time: 02:30 PM TO 05:00 PM Instructions: Total Mark						
Instru	1. A 2. N	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.				
Q.1	(a) (b) (c)	Explain Software Engineering as a Layered technology. Explain Spiral Model in brief with suitable diagram. What is the importance of Process Model in development of Software System? Explain Prototype Process Model.	03 04 07			
Q.2	(a) (b) (c)	Differentiate Procedural Design and Object Oriented Design. What is Architectural Design? Enlist different styles and patterns of architecture. Explain Project Scheduling Process. Also Explain Gantt Chart in	03 04 07			
	(C)	detail.	07			
		OR				
	(c)	Explain Scrum with its advantages and disadvantages.	07			
Q.3	(a)	Compare Prototype and RAD Model.	03			
	(b)	List the different Agile Process Model and Explain any one with suitable example.	04			
	(c)	What is Object Oriented Design of a system? Draw the Use case diagram and Class diagram for Library Management system. OR	07			
Q.3	(a)	Describe Golden Rules of User Interface Design.	03			
	(b)	Draw the Time-line chart for the Hospital Management System.	04			
	(c)	What is activity diagram and Swim-lane? Draw activity diagram for Billing Counter of a Shopping Mall.	07			
Q.4	(a)	List Quality Standards. Explain any one.	03			
	(b)	Discuss RMMM.	04			
	(c)	Compare Coupling and Cohesion. Explain different types of Coupling and its effects on software modules. OR	07			
Q.4	(a)	Explain Formal Technical Review.	03			
	(b)	Differentiate between Quality Assurance & Quality Control.	04			
	(c)	What do you mean by Quality for a software? Enlist and explain SQA activities in brief.	07			
Q.5	(a)	Write short note on Reengineering.	03			
	(b)	Discuss Software Project Management and W5HH Principle in brief.	04			
	(c)	Discuss Software Configuration Management in detail.	07			

OR

Q.5	(a)	What is Cyclomatic Complexity? Define Steps to find Cyclomatic	03
		Complexity using flow graph.	
	(b)	Explain Reverse Engineering in brief.	04
	(c)	Explain Software Process Improvement with various elements of SPI framework.	07
		namework.	
