Seat No.:	Enrolment No.
Seat NO	EHIOHHEIR NO.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-VI (NEW) EXAMINATION - WINTER 2018

Subject Code:2160701		ode:2160701 Date	Date:16/11/2018	
Subje	ect N	ame:Software Engineering		
Time	: 02:3	80 PM TO 05:00 PM Total	l Marks: 70	
Instru				
		Attempt all questions.		
		Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
	J. 1	igures to the right indicate run marks.		
Q.1	(a)	Explain Software Engineering as a Layered technology.	03	
	<b>(b)</b>	Explain Spiral Model in brief with suitable diagram.	04	
	(c)	What is the importance of Process Model in development of Softwa	are <b>07</b>	
		System? Explain Prototype Process Model.		
Q.2	(a)	Differentiate Procedural Design and Object Oriented Design.	03	
•	<b>(b)</b>	What is Architectural Design? Enlist different styles and patterns		
	, ,	architecture.		
	(c)	Explain Project Scheduling Process. Also Explain Gantt Chart	in <b>07</b>	
		detail.		
		OR		
	(c)	Explain Scrum with its advantages and disadvantages.	07	
Q.3	(a)	Compare Prototype and RAD Model.	03	
	<b>(b)</b>	List the different Agile Process Model and Explain any one w	ith <b>04</b>	
		suitable example.		
	<b>(c)</b>	What is Object Oriented Design of a system? Draw the Use ca	ase <b>07</b>	
		diagram and Class diagram for Library Management system.		
		OR		
Q.3	(a)	Describe Golden Rules of User Interface Design.	03	
	<b>(b)</b>	Draw the Time-line chart for the Hospital Management System.	04	
	<b>(c)</b>	What is activity diagram and Swim-lane? Draw activity diagram	for <b>07</b>	
		Billing Counter of a Shopping Mall.		
Q.4	(a)	List Quality Standards. Explain any one.	03	
	<b>(b)</b>	Discuss RMMM.	04	
	(c)	Compare Coupling and Cohesion. Explain different types	of <b>07</b>	
		Coupling and its effects on software modules.  OR		
Q.4	(a)	Explain Formal Technical Review.	03	
<b>Q</b>	(b)	Differentiate between Quality Assurance & Quality Control.	04	
	(c)	What do you mean by Quality for a software? Enlist and explain SQ	QA <b>07</b>	
	` /	activities in brief.	-	
Q.5	(a)	Write short note on Reengineering.	03	
-	<b>(b)</b>	Discuss Software Project Management and W5HH Principle in bri	ef. <b>04</b>	
	<b>(c)</b>	Discuss Software Configuration Management in detail.	07	

## OR

(a)	What is Cyclomatic Complexity? Define Steps to find Cyclomatic	
	Complexity using flow graph.	
<b>(b)</b>	Explain Reverse Engineering in brief.	04
(c)	Explain Software Process Improvement with various elements of SPI framework.	07
	<b>(b)</b>	<ul><li>(b) Explain Reverse Engineering in brief.</li><li>(c) Explain Software Process Improvement with various elements of SPI</li></ul>

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