

**GUJARAT TECHNOLOGICAL UNIVERSITY**
**BE - SEMESTER-VI(NEW) – EXAMINATION – SUMMER 2019**
**Subject Code:2160701**
**Date:10/05/2019**
**Subject Name:Software Engineering**
**Time:10:30 AM TO 01:00 PM**
**Total Marks: 70**
**Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		MARKS
<b>Q.1</b>	(a) What is Software Engineering? What is Process? What is Product?	<b>03</b>
	(b) Explain Software Engineering as a Layered Technology.	<b>04</b>
	(c) Explain Waterfall process model.	<b>07</b>
<b>Q.2</b>	(a) Explain Formal Technical Review.	<b>03</b>
	(b) Define Coupling and Cohesion.What is the difference between cohesion and coupling.	<b>04</b>
	(c) What is the importance of User Interface? Explain User Interface design rules.	<b>07</b>
<b>OR</b>		
<b>Q.3</b>	(c) Explain SCM process in details.	<b>07</b>
	(a) Compare Prototype and RAD Process Model.	<b>03</b>
	(b) What is architectural design? Enlist different style and patterns of architecture.	<b>04</b>
	(c) What is the importance of SQA? Explain the SQA activities.	<b>07</b>
<b>OR</b>		
<b>Q.3</b>	(a) Explain the process of code review.	<b>03</b>
	(b) Difference between reverse engineering and forward engineering.	<b>04</b>
	(c) Explain Software as a Service (SaaS).	<b>07</b>
<b>Q.4</b>	(a) Explain COCOMO model for project estimation.	<b>03</b>
	(b) Explain Agile Development in detail.	<b>04</b>
	(c) Explain Risk Management.	<b>07</b>
<b>OR</b>		
<b>Q.4</b>	(a) Explain Version and Change Control Management.	<b>03</b>
	(b) Explain 4 P's of Effective Project Management in detail.	<b>04</b>
	(c) Explain Integration testing.	<b>07</b>
<b>Q.5</b>	(a) State the difference between procedural Design and Object Oriented Design.	<b>03</b>
	(b) Write short notes on Reverse Engineering	<b>04</b>
	(c) Explain White Box Testing With an Example.	<b>07</b>
<b>OR</b>		
<b>Q.5</b>	(a) Compare quality control with quality assurance.	<b>03</b>
	(b) Explain Software Project management and W5HH principle	<b>04</b>
	(c) Write a short note on Requirement Engineering.	<b>07</b>

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