

Enrollment No./Seat No.:

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**Bachelor of Vocation - SEMESTER - II EXAMINATION - SUMMER 2025**

**Subject Code: 21120202**

**Date: 23-05-2025**

**Subject Name: Software Engineering**

**Time:10:30 AM TO 12:30 PM**

**Total Marks: 50**

**Instructions**

- 1. Attempt all questions.**
- 2. Make Suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**
- 4. Use of simple calculators and non-programmable scientific calculators are permitted.**

	<b>Marks</b>
<b>Q.1 (a)</b> Explain Software Engineering as a Layered Technology.	<b>05</b>
<b>(b)</b> Explain Waterfall process model.	<b>05</b>
<b>Q.2 (a)</b> Explain project management and W5HHH principle.	<b>05</b>
<b>(b)</b> What is software project planning? Enlist major activities that are performed during project planning.	<b>05</b>
<b>OR</b>	
<b>(b)</b> Draw Use Case diagram for Hospital Management System.	<b>05</b>
<b>Q.3 (a)</b> Explain different design concepts.	<b>05</b>
<b>(b)</b> Compare and contrast coupling and cohesion.	<b>05</b>
<b>OR</b>	
<b>(a)</b> What is coupling? Explain different types of coupling.	<b>05</b>
<b>(b)</b> What is Cohesion? Explain different types of cohesion.	<b>05</b>
<b>Q.4 (a)</b> Give the difference between Black Box Testing and White Box Testing.	<b>05</b>
<b>(b)</b> Explain testing strategies (different levels of testing) in detail.	<b>05</b>
<b>OR</b>	
<b>(a)</b> Write a short note on ISO 9000 quality Standards.	<b>05</b>
<b>(b)</b> Write a short note on Unit Testing.	<b>05</b>
<b>Q.5 (a)</b> Write a short note on Software Re-engineering.	<b>05</b>
<b>(b)</b> Write a short note on Reverse Engineering.	<b>05</b>
<b>OR</b>	
<b>(a)</b> Write a short note on Software Reuse.	<b>05</b>
<b>(b)</b> Explain CASE tools and its importance in software engineering.	<b>05</b>

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