

**GUJARAT TECHNOLOGICAL UNIVERSITY****B.VOC - SEMESTER– II EXAMINATION – SUMMER 2024****Subject Code: 21120202****Date:27-05-2024****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. Simple and non-programmable scientific calculators are allowed.

		<b>Marks</b>
<b>Q.1</b>	(a) Explain Software Engineering as a Layered Technology.	<b>05</b>
	(b) Draw and explain Waterfall process model.	<b>05</b>
<b>Q.2</b>	(a) What is requirement engineering? List and explain requirement engineering tasks.	<b>05</b>
	(b) Draw Activity Diagram for Library Management System.	<b>05</b>
<b>OR</b>		
	(b) Draw Data Flow Diagram for Hospital Management System.	<b>05</b>
<b>Q.3</b>	(a) Explain different design concepts.	<b>05</b>
	(b) State various design principles.	<b>05</b>
<b>OR</b>		
<b>Q.3</b>	(a) What is Cohesion? Explain different types of cohesion.	<b>05</b>
	(b) Compare and contrast coupling and cohesion.	<b>05</b>
<b>Q.4</b>	(a) Write a short note on Unit Testing.	<b>05</b>
	(b) Compare Quality Control with Quality Assurance.	<b>05</b>
<b>OR</b>		
<b>Q.4</b>	(a) Write a short note on Software Reliability.	<b>05</b>
	(b) Compare Black Box Testing and White Box Testing.	<b>05</b>
<b>Q.5</b>	(a) Write a short note on Software Re-engineering.	<b>05</b>
	(b) List and explain CASE tools and their importance in software engineering.	<b>05</b>
<b>OR</b>		
<b>Q.5</b>	(a) Write a short note on Software Reuse.	<b>05</b>
	(b) Explain CASE and building blocks of CASE.	<b>05</b>

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