

**GUJARAT TECHNOLOGICAL UNIVERSITY****B.VOC- SEMESTER– II EXAMINATION – WINTER 2023****Subject Code:21120202****Date:28-12-2023****Subject Name:Software Engineering****Time:02:30 PM TO 04:30 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.

		Marks
<b>Q.1</b>	(a) Explain Software Engineering as a Layered Technology.	<b>05</b>
	(b) Explain Spiral Model in brief with suitable diagram.	<b>05</b>
<b>Q.2</b>	(a) What is COCOMO? Explain COCOMO Model in detail.	<b>05</b>
	(b) Draw E-R Diagram for Library Management System.	<b>05</b>
<b>OR</b>		
	(b) Draw Use Case diagram for Hotel Management System.	<b>05</b>
<b>Q.3</b>	(a) Explain various communication techniques used for requirement analysis.	<b>05</b>
	(b) Enlist characteristics of SRS. Write SRS for College Management System.	<b>05</b>
<b>OR</b>		
<b>Q.3</b>	(a) Explain project management and W5HHH principle.	<b>05</b>
	(b) Write functional and non-functional requirements of Library Management System.	<b>05</b>
<b>Q.4</b>	(a) Give the difference between Black Box Testing and White Box Testing.	<b>05</b>
	(b) Explain different design concepts.	<b>05</b>
<b>OR</b>		
<b>Q.4</b>	(a) Compare and contrast coupling and cohesion.	<b>05</b>
	(b) Explain Formal Technical Review.	<b>05</b>
<b>Q.5</b>	(a) Write a short note on ISO 9000.	<b>05</b>
	(b) Explain CASE and building blocks of CASE.	<b>05</b>
<b>OR</b>		
<b>Q.5</b>	(a) Write a short note on Software Re-engineering.	<b>05</b>
	(b) Explain integrated CASE environment.	<b>05</b>

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