Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER– 2 • EXAMINATION – WINTER - 2023

Subject Code:3721415 Date: 16 Jan 2024

Subject Name:Quality & Safety Management in Construction

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.**

Q.1	**(a)**	Write a note on quality management systems and methods	**07**
	(b)	What are different responsibilities and authorities in quality assurances and quality control	**07**
Q.2	**(a)**	Explain the objectives and methods in construction industry	**07**
	(b)	Explain quality system standards	**07**
		OR	
	(b)	Write a note on ISO 9004	**07**
Q.3	**(a)**	What are the different techniques of quality assurance and explain their needs.	**07**
	(b)	Enlist the factors influencing construction quality and explain them	**07**
		OR	
Q.3	**(a)**	What are the different techniques of quality control and explain their needs.	**07**
	(b)	Explain the following terms with necessary diagrams: Histogram, Parcto diagram, and Fishbonc diagram.	**07**
Q.4	**(a)**	Write a note on health and environment management system	**07**
	(b)	Explain the testing required for quality control of construction material used in RCC work	**07**
		OR	
Q.4	**(a)**	Write a note on occupational Safety	**07**
	(b)	How can Six Sigma tools be applied to RCC work in building construction projects, and what benefits can they provide?	**07**
Q.5	**(a)**	Discuss about OSHA and its benefit to construction industry	**07**
	(b)	What can be done for safety in the use of construction equipment and electrical appliances	**07**
		OR	
Q.5	**(a)**	Comment on design and development of training programs for construction safety	**07**
	(b)	How are training programs designed and developed for occupational safety and health management systems, and what strategies are used to ensure their effectiveness?	**07**

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