GUJARAT TECHNOLOGICAL UNIVERSITY
BE – SEMESTER- V EXAMINATION-SUMMER 2023

Subject Code: 3152512   **Date: 27/06/2023**

Subject Name: Industrial Engineering

Time: 02:30 PM TO 05:00 PM   **Total Marks: 70**

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
Q.1	**(a)**	Enlist the importance of quality control.	**03**
	(b)	What are the important points are covered in the Industrial engineering subject?	**04**
	(c)	Define Productivity. Explain how to improve productivity through work study.	**07**
Q.2	**(a)**	Write a full form of "CRAFT" with reference to industrial engineering.	**03**
	(b)	Explain the string diagram with neat sketch.	**04**
	(c)	Write a short note on Location selection.	**07**
		OR	
	(c)	Write a short note on Plant location.	**07**
Q.3	**(a)**	Enlist the different symbols used in man and machine chart with neat sketch.	**03**
	(b)	Explain the difference between work study and work measurement.	**04**
	(c)	Explain the productivity improvement tools	**07**
		OR	
Q.3	**(a)**	Enlist the different symbols used in Operation Process chart with neat sketch.	**03**
	(b)	Briefly explain Micro motion study.	**04**
	(c)	Write a full form of PMTS. Explain the importance of work measurement in Industrial Engineering.	**07**
Q.4	**(a)**	Explain Job Evaluation.	**03**
	(b)	Explain the need of Industrial Legislation	**04**
	(c)	Briefly explain the Industrial dispute act 1947.	**07**
		OR	
Q.4	**(a)**	Explain Merit rating.	**03**
	(b)	Explain government different incentives for entrepreneurs.	**04**
	(c)	Briefly explain the Indian trade unions act 1926.	**07**
Q.5	**(a)**	Write a full form of "CORELAP" with reference to industrial engineering.	**03**
	(b)	Explain waste management with reference to industrial engineering.	**04**
	(c)	Write a short note on ISO 9000.	**07**
		OR	
Q.5	**(a)**	Enlist different Statistical Quality Control tools.	**03**
	(b)	Explain different factors affecting layouts.	**04**
	(c)	Write a short note on ISO 14000.	**07**

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