

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE- SEMESTER-V (NEW) EXAMINATION – WINTER 2020****Subject Code:3152512****Date:01/02/2021****Subject Name:Industrial Engineering****Time:10:30 AM TO 12:30 PM****Total Marks: 56****Instructions:**

1. Attempt any FOUR questions out of EIGHT questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

			MARKS
<b>Q.1</b>	(a)	Which factors are considered for plant location decision?	<b>03</b>
	(b)	Why plant location is importance?	<b>04</b>
	(c)	Explain the principles of plant layout?	<b>07</b>
<b>Q.2</b>	(a)	Write objectives of method study?	<b>03</b>
	(b)	Definition of productivity, application and advantages?	<b>04</b>
	(c)	Write the CRAFT technique for plant layout.	<b>07</b>
<b>Q.3</b>	(a)	Write the objectives of work measurement?	<b>03</b>
	(b)	Describe the principles of motion economy.	<b>04</b>
	(c)	Explain the time study techniques.	<b>07</b>
<b>Q.4</b>	(a)	Definition of observed time, basic time, normal time, rating factors and allowances?	<b>03</b>
	(b)	Explain the quality circles concept?	<b>04</b>
	(c)	Write the methods of job evaluation?	<b>07</b>
<b>Q.5</b>	(a)	Write the definition of total quality management.	<b>03</b>
	(b)	Which are the methods of merit rating?	<b>04</b>
	(c)	Explain the concept of ISO 9000?	<b>07</b>
<b>Q.6</b>	(a)	List out the sources of industrial finance supportive organization.	<b>03</b>
	(b)	Why need for Industrial legislation?	<b>04</b>
	(c)	Explain the Industrial dispute act 1947?	<b>07</b>
<b>Q.7</b>	(a)	Definition of Statistical Quality Control.	<b>03</b>
	(b)	Which are government incentives schemes for entrepreneurs?	<b>04</b>
	(c)	Explain the Principle and Concept of Six sigma.	<b>07</b>
<b>Q.8</b>	(a)	Describe the application of travel Chart?	<b>03</b>
	(b)	Write objectives and benefits of inspection.	<b>04</b>
	(c)	Write an acceptance sampling process?	<b>07</b>

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