

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