

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- SEMESTER-V (NEW) EXAMINATION – WINTER 2020****Subject Code:3152010****Date:22/01/2021****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) Define TQM.	03
	(b) Define job evaluation and state its objectives.	04
	(c) Discuss the various factors that affect the plant location.	07
Q.2	(a) Explain purpose of the quality circle.	03
	(b) Prepare a list of “Therbligs” used in the industry. (Any Eight).	04
	(c) Differentiate between product layout and process layout by taking suitable example.	07
Q.3	(a) State the objectives of good plant layout.	03
	(b) Explain SIMO chart.	04
	(c) What is an OC curve? Explain the step by step procedure for the construction of an OC curve.	07
Q.4	(a) Define production and productivity.	03
	(b) Explain the requirements of ISO 9000 certification.	04
	(c) State various sources of industrial finance and government incentives to entrepreneurs.	07
Q.5	(a) Define rating? Why it is required?	03
	(b) Distinguish consumer’s risk and producer’s risk.	04
	(c) Explain the terms Loading, scheduling, dispatching, and expediting.	07
Q.6	(a) As per the factories act, 1948 define “certifying surgeons”.	03
	(b) Explain in brief travel chart.	04
	(c) Discuss the reasons for “Low Productivity” in the organization.	07
Q.7	(a) What is industrial dispute?	03
	(b) Discuss major provisions of ‘Workman’s Compensation Act, 1925’.	04
	(c) Compare urban area and rural area for site selection of plant.	07
Q.8	(a) Why entrepreneurship required in industry?	03
	(b) Explain ‘Variables’ and ‘Attributes’ in context of quality control chart.	04
	(c) What do you mean by flow pattern? What are the different factors affecting the flow pattern?	07
