

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER– VI (NEW) EXAMINATION – WINTER 2021****Subject Code:2161907****Date:02/12/2021****Subject Name:Industrial Engineering****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.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) Differentiate the process layout vs Product layout.	03
	(b) Draw Flow process chart.	04
	(c) Describe the quality circle.	07
Q.2	(a) What is standardization?	03
	(b) Discuss the method of job sequencing.	04
	(c) Discuss assembly line balancing.	07
OR		
	(c) Discuss the least square method of sales forecasting with suitable example.	07
Q.3	(a) Define Productivity index.	03
	(b) State the application of workstudy in industries.	04
	(c) What is Work measurement? List the various techniques of work measurement and also explain how the standard time is calculated.	07
OR		
Q.3	(a) Define ergonomics.	03
	(b) What is therblig? State the importance of micro motion study.	04
	(c) Discuss the factors which should be considered for the site selection of cement industry.	07
Q.4	(a) Explain Minimum Wage, Fair Wage and Living Wage.	03
	(b) Discuss Ineffective time due to shortcomings on the part of management.	04
	(c) State wage incentive plans. Explain any one in details.	07
OR		
Q.4	(a) Difference between Job Evaluation and Merit Rating.	03
	(b) Discuss Ineffective time within the control of the worker.	04
	(c) Discuss any one method of job evaluation.	07
Q.5	(a) Explain TQM.	03
	(b) Differentiate 'Variables' and 'Attributes' with reference to quality control charts.	04
	(c) Explain the factory act 1948.	07
OR		
Q.5	(a) Enlist three provision provided in Employee Provident Fund Scheme, 1952.	03
	(b) Explain the characteristics of a normal distribution curve	04
	(c) Explain operating characteristic curve in detail.	07
