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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER- VI (New) EXAMINATION - WINTER 2019

Subject Code: 2161907 Date: 11/12/2019

**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.

<b>Q.1</b>	(a)	Explain the importance of plant location.	03
	<b>(b)</b>	Explain main objectives of SEZ.	04
	<b>(c)</b>	What is meant by plant layout? States its definition. Compare	07
		product layout with process layout.	
<b>Q.2</b>	(a)	Define the following:	03
		(i) Production (ii) Planning (iii) Control.	
	<b>(b)</b>	What is line balancing? Discuss about precedence diagram.	04
	<b>(c)</b>	What is sequencing? Discuss about various assumption made to	07
		solve problem by sequencing method.	
		OR	
	(c)	Name the various methods of sales forecasting. Describe any	07
		two of them.	
Q.3	(a)	Explain SIMO chart.	03
_	<b>(b)</b>	What is method study? Explain objective of method study.	04
	(c)	Explain motion economy related to –(a) Human body (b) Work	07
		place layout (c) Design of tools and equipment.	
		OR	
Q.3	(a)	List the different equipments used for time study and explain fly	03
		back timing method.	
	<b>(b)</b>	Describe "Critical Examination "step.	04
	(c)	Describe ranking method of job evaluation with its advantages	07
		and disadvantages.	
<b>Q.4</b>	(a)	Define Entrepreneur and Entrepreneurship.	03
	<b>(b)</b>	Briefly state sources of industrial finance.	04
	(c)	How does the multiple activity charts help to reduce the idle	07
		time of men and machines?	
		OR	
<b>Q.4</b>	(a)	Define job evaluation. Discuss the objectives of job.	03
	<b>(b)</b>	Write a short note on quality audit.	04
	<b>(c)</b>	Explain importance of safety provisions in case of machinery,	07
		hoist and lifts, precaution of fire as mentioned in Factory act.	
Q.5	(a)	Explain: Principles of Quality Control.	03
	<b>(b)</b>	What are the penalties kept under Payment of Wages Act?	04
	<b>(c)</b>	Write a short note on TQM.	07
		OR	
<b>Q.5</b>	(a)	Explain following term with respect to O.C. curve:	03
		(i)Producer's risk (ii) Consumer's risk	
	<b>(b)</b>	Discuss the effect of change in lot size on O.C. curve.	04
	(c)	Describe the method of constructions p- chart and 100p chart.	07