

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) EXAMINATION – WINTER 2017

Subject Code: 2161907

Date: 16/11/2017

Subject Name: Industrial Engineering

Time: 02:30 PM TO 05:00PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.

Figures to the right indicate full marks.

		MARKS
Q.1*	(a) Briefly explain different types of wages.	03
	(b) Explain tools & techniques to improve productivity.	04
	(c) Write short Notes on six sigma & Total Quality Management.	07
Q.2	(a) Explain Method study procedure briefly.	03
	(b) What are the functions of PPC?	04
	(c) Explain procedure to draw operating characteristic curve .	07
	OR	
	(c) Write Short notes on Ergonomics.	07
Q.3	(a) What are the factors affect plant location?	03
	(b) Explain workmen compensation act-1923	04
	(c) Briefly Explain concept of Quality circle.	07
	OR	
Q.3	(a) Explain shortly procedure of work study.	03
	(b) Discuss Multiple activity chart.	04
	(c) Explain Assembly Line Balancing.	07
Q.4	(a) Briefly explain motion economy principle.	03
	(b) Explain Principal of Material Handling.	04
	(c) Define Wages & also explain various types of incentives.	07
	OR	
Q.4	(a) Write any four objectives of production management.	03
	(b) Differentiate between product layout & Process layout.	04
	(c) Discuss Uses of String Diagram.	07
Q.5	(a) What is therbligs? Explain importance of it.	03
	(b) What is productivity & how it can be improved with suitable example.	04
	(c) What is work sampling & how it is carried out?	07
	OR	
Q.5	(a) Discuss standardization in brief.	03
	(b) Briefly state sources of industrial finance.	04
	(c) Define control chart & discuss the control charts for variables.	07