

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-VI(NEW) – EXAMINATION – SUMMER 2019**

**Subject Code:2161907**

**Date:18/05/2019**

**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.
1. Figures to the right indicate full marks.

	<b>MARKS</b>
<b>Q.1</b> (a) State objective of good plant layout.	<b>03</b>
(b) State advantages of rural area for site selection for industries.	<b>04</b>
(c) What is production planning and control? Explain the functions of PPC.	<b>07</b>
<b>Q.2</b> (a) State the importance of micro motion study	<b>03</b>
(b) Why standardization need in industries?	<b>04</b>
(c) Write short note on two handed process chart.	<b>07</b>
<b>OR</b>	
(c) Explain the procedure of work study. State the applications of work study in industry.	<b>07</b>
<b>Q.3</b> (a) Why entrepreneurship required in industry?	<b>03</b>
(b) Explain in brief flow chart.	<b>04</b>
(c) List various methods of sales forecasting and explain exponential smoothing method.	<b>07</b>
<b>OR</b>	
<b>Q.3</b> (a) Define route sheet also state its importance.	<b>03</b>
(b) Explain in brief travel chart.	<b>04</b>
(c) What is work measurement? List various methods of work measurement and explain how standard time is calculated.	<b>07</b>
<b>Q.4</b> (a) List sources of finance of business.	<b>03</b>
(b) State difference between job evaluation and merit rating.	<b>04</b>
(c) Define wages and explain in detail various types of incentives.	<b>07</b>
<b>OR</b>	
<b>Q.4</b> (a) Define term (1) Inspection (2) T.Q.M. (3) Quality control	<b>03</b>
(b) Distinguish consumer's risk and producer's risk	<b>04</b>
(c) Define productivity? Give various ways to improve productivity and also explain any one with suitable example.	<b>07</b>
<b>Q.5</b> (a) What is industrial dispute?	<b>03</b>
(b) What is loading and scheduling?	<b>04</b>
(c) Write short note on Factory Act, 1948	<b>07</b>
<b>OR</b>	
<b>Q.5</b> (a) Explain need of control charts.	<b>03</b>
(b) State various types of plant layout and explain any one in detail.	<b>04</b>
(c) Explain concept of quality circle in detail.	<b>07</b>

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