

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

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

# **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER– VI• EXAMINATION–SUMMER 2015**

**Subject code: 161907**

**Date:06/05/2015**

**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.**

**Q.1 (a)** Discuss the factors to be considered for the selection of the site for textile industry. **07**

**(b)** Differentiate between product layout and process layout. **07**

**Q.2 (a)** Explain the various functions of production planning and control. **07**

**(b)** What is sales forecasting? List various methods of sales forecasting and explain exponential smoothing method. **07**

**OR**

**(b)** Write short note on “line of balancing”. **07**

**Q.3 (a)** Differentiate between method study and work measurement. How is productivity increased by these methods? **07**

**(b)** Explain outline process chart and flow process chart. **07**

**OR**

**Q.3 (a)** Briefly discuss multiple activity chart with their objectives. **07**

**(b)** Discuss the procedure establish standard time for completion of a job. **07**

**Q.4 (a)** List the various Therbligs with their symbols. Explain applications of micro motion study. **07**

**(b)** Distinguish between job evaluation and merit rating. Discuss its importance and objectives. **07**

**OR**

**Q.4 (a)** Define SQC. Write short note on "Operating Characteristics curve". **07**

**(b)** State different types of control charts used for variables and attributes type of characteristics. Explain any one in detail. **07**

**Q.5 (a)** Define wages. Explain in brief various types of incentives. **07**

**(b)** Explain various characteristics of entrepreneur. **07**

**OR**

**Q.5 (a)** Write short note on single and multiple sampling plan. **07**

**(b)** Write in brief about Industrial dispute act 1947. **07**

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