

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**
