

GUJARAT TECHNOLOGICAL UNIVERSITY
PDDC - SEMESTER-VI • EXAMINATION – WINTER • 2014

Subject Code: X61904**Date: 06-12-2014****Subject Name: Industrial Engineering****Time: 02:30 pm - 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.

- Q.1 (a)** State the objectives of Plant Layout. Enlist the various types of layout and compare any two. **07**
- (b)** Explain Production Planning and Control. Discuss the objectives of Production Planning and Control. **07**
- Q.2 (a)** Discuss the following methods of sales forecasting **07**
- (1) exponential smoothing
- (2) methods of weighted moving average
- (b)** Explain Flow process chart- worker type with suitable example. **07**
- OR**
- (b)** State the relationship between productivity and work study. Explain various tools for increasing productivity. **07**
- Q.3 (a)** Differentiate between cumulative timing and fly back timing **07**
- (b)** What is the industrial dispute? Discuss the process of resolving industrial disputes through the Industrial Dispute Act. **07**
- OR**
- Q.3 (a)** Write a short note on : “Job Evaluation Techniques” **07**
- (b)** Write a short note on : “Factories Act, 1948” **07**
- Q.4 (a)** What is Productivity? Discuss the factors affecting the productivity of the manufacturing organization. **07**
- (b)** Discuss – Standardization and Simplification. **07**
- OR**
- Q.4 (a)** What is therblig? State the importance of micro motion study. **07**
- (b)** Define the control chart. Discuss the control charts for variables. **07**
- Q.5 (a)** Explain the applicability of P chart and C chart **07**
- (b)** Discuss the incentives which are being given to the entrepreneurs by the government. **07**
- OR**
- Q.5 (a)** Discuss concept of “Quality Circle” **07**
- (b)** Explain in brief Six Sigma **07**
