

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI- EXAMINATION – SUMMER 2016****Subject Code:161907****Date:06/05/2016****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) Compare Rural and Urban areas in connection with site selection for an industry. **07**
(b) Describe the product layout with a neat sketch and state its advantages and limitations. **07**
- Q.2** (a) Define Production Planning and Control. Describe the functions of PPC in brief. **07**
(b) Write short notes on : **07**
i) Route sheet ii) Gantt chart
- OR**
- (b) Describe Exponential Smoothing method of sales forecasting. States its advantages and limitations. **07**
- Q.3** (a) Define Work Study and Productivity. Explain how work study helps to increase productivity? **07**
(b) Explain in brief the following : **07**
i) Flow diagram ii) Two-hand process chart
- OR**
- Q.3** (a) Explain in brief the following : **07**
i) Micromotion study ii) Cycle graph and chronocycle graph
(b) State and explain in brief the various allowances to be considered while estimating the standard time. **07**
- Q.4** (a) Define Time Study. List down various steps in conducting a stop watch time study. **07**
(b) Explain the following : **07**
i) T.Q.M. ii) Operating Characteristics curves
- OR**
- Q.4** (a) What S.Q.C.? Explain in brief how P chart and C chart are constructed? **07**
(b) Distinguish the following : **07**
i) Consumer's risk and Producer's risk ii) Single and multiple sampling plan.
- Q.5** (a) what is entrepreneur and entrepreneurship? State the factors influencing entrepreneurship. **07**
(b) Write short notes on: **07**
i) Factory act ii) Various types of incentives.
- OR**
- Q.5** (a) Describe the following methods of Job evaluation: **07**
i) Ranking method ii) Job classification method.
(b) What is industrial dispute? Discuss the process of resolving the industrial disputes through the Industrial Disputes act. **07**
