

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI • EXAMINATION – WINTER • 2014****Subject Code: 161907****Date: 10-12-2014****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) What is the term productivity? State various ways to improve productivity. Explain any one of them with suitable example. **07**
- (b) What is method study? Write its procedures (steps) and explain any two steps in detail. **07**
- Q.2** (a) Explain various factors affecting plant location. **07**
- (b) Write various types of plant layout and explain any two with neat sketch. **07**
- OR**
- (b) Mention any four objective of production management. **07**
- Q.3** (a) Explain principle of motion economy and work place layout. **07**
- (b) How does the multiple activity charts help to reduce the ideal time of men and machine? **07**
- OR**
- Q.3** (a) What is material handling? Explain its major principles in brief. **07**
- (b) Discuss different methods of sales forecasting. **07**
- Q.4** (a) What is sampling? How it is useful in statically quality control. **07**
- (b) Explain following terms:- **07**
- (i) Aggregate production planning.
- (ii) Assembly line balancing.
- OR**
- Q.4** (a) Explain operating characteristic curve in detail. **07**
- (b) Write characteristics of an entrepreneur. **07**
- Q.5** (a) What are the different provisions made under various Indian trade union acts? **07**
- (b) Write short note. **07**
- (i) Qualified worker
- (ii) Point rating method of job evaluation.
- OR**
- Q.5** (a) Explain essentials for good wage incentive plan. **07**
- (b) Discuss **07**
- (i) Characteristic of good entrepreneur.
- (ii) String diagram & its uses.
