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| Seat No.: | Enrolment No. |

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER - VI EXAMINATION - WINTER 2015

| Su | bject | t Code:161907 Date: 05/12/ 2015 | |
|-----|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Su | bject | Name: Industrial Engineering | |
| | me:2 tructio | :30pm to 5:00pm Total Marks: 70 | |
| | 1. 2. | Attempt all questions. | |
| Q.1 | (a) | Define productivity. How the productivity of land,machine,man and material can be increased. | 07 |
| | (b) | State and explain the principles of plant lay out. | 07 |
| Q.2 | (a) | Explain the procedure of work study. State the applications of work study in the industries. | 07 |
| | (b) | Explain the types of plant lay outs with their applications. OR | 07 |
| | (b) | Explain the assembly line balancing. | 07 |
| Q.3 | (a) (b) | Explain the functions of production planning and control. Explain the concept of sales forecasting. State the techniques of sales forecasting and explain any one technique in details. OR | 07 07 |
| Q.3 | (a) (b) | Explain loading and scheduling with its examples. Explain the importance of standardization and simplification in product design and development. | 07 07 |
| Q.4 | (a) (b) | Explain the concept of total quality management. State wage incentive plans. Explain any one in details. OR | 07 07 |
| Q.4 | (a) (b) | Explain the concept of quality circle in details. Explain the OC curve for statistical quality control. | 07 07 |
| Q.5 | (a) (b) | Explain the principles of motion economy. Explain the factory act 1948. OR | 07 07 |
| Q.5 | (a) (b) | Explain the need of job evaluation and merit rating. Explain workmen compensation act 1923. | 07 07 |
