

GUJARAT TECHNOLOGICAL UNIVERSITY
B. E. - SEMESTER – VI • EXAMINATION – WINTER 2012

Subject code: 161907**Date: 09/01/2013****Subject Name: Industrial Engineering****Time: 02.30 pm - 05.00 pm****Total Marks: 70****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Differentiate between product layout and process layout by taking suitable example 07
(b) Explain in detail method of weighted moving average 07
- Q.2** (a) Explain in brief operation process charts and machine data cards 07
(b) Explain Economic order quantity 07
- OR**
- (b) Discuss in detail assembly line balancing. 07
- Q.3** (a) Explain the applicability of P chart and C chart 07
(b) Describe the term T.Q.M. and quality assurance. 07
- OR**
- Q.3** (a) Explain in brief Six sigma 07
(b) Describe the quality circles. 07
- Q.4** (a) State the importance of micro motion study 07
(b) Differentiate between cumulative timing and fly back timing 07
- OR**
- Q.4** (a) Explain in brief various charts and diagrammes utilized in method study. 07
(b) Explain various tools for increasing productivity. 07
- Q.5** (a) What are factory act? What are major provisions for safety and health? 07
(b) Define wages and explain in detail various types of incentives. 07
- OR**
- Q.5** (a) State various methods of job evaluation. 07
(b) State various sources of industrial finance and government incentives to entrepreneurs. 07
