

Roll No. ....

**24359**

**B. Tech 6th Semester (ME)**

**Examination – May, 2016**

**INDUSTRIAL ENGINEERING**

**Paper : ME-312-F**

***Time : Three Hours ]***

***[ Maximum Marks : 100***

*Before answering the question, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

**Note :** Question No. 1 is *compulsory*. There are *four* sections, contain 2 question in each at least one question is to be attempted from each Section.

- 1. Explain :** **20**
- (i) Industrial Engineering
  - (ii) Motion Economy
  - (iii) Quality
  - (iv) Cost
  - (v) Incentives

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**P. T. O.**

**SECTION - A**

2. (a) What is break even analysis ? Explain. 10  
(b) Explain fixed, variable and overhead costs. 10
3. What is productivity ? Explain factors effecting productivity. 20

**SECTION - B**

4. Explain work measurement. Explain various methods of work measurement. 20
5. Explain : 20  
(i) Economic order quality  
(ii) Economic Batch quality.

**SECTION - C**

6. Explain the concept of quality assurance system with suitable examples. 20
7. Define PPC. Explain its objectives and variables. 20

**SECTION - D**

8. What is MIS ? What is the importance of MIS ? Explain the role of MIS in decision making. 20
9. (a) What is value engineering. 5  
(b) Explain role of Ergonomics in product design. 15