



Reg. No. : .....

Name : .....

**Eighth Semester B.Tech. Degree Examination, November 2013  
(2008 Scheme)  
08.802 : INDUSTRIAL ENGINEERING (MPU)**

Time : 3 Hours

Max. Marks : 100

**PART – A**

Answer **all** questions ; **each** question carries **4** marks.

1. What is industrial engineering ? Explain the applications of it in service industries.
2. What is a break even chart ?
3. What are the advantages of Flexible Manufacturing System ?
4. Explain a two handed process chart.
5. What are Therbligs ?
6. What are the essentials of a good wage incentive plan ?
7. Explain the causes and effects of industrial disputes.
8. What is a GANTT-chart ?
9. Explain various non destructive testing methods.
10. What is a quality circle ?



**(10×4=40 Marks)**

**PART – B**

Answer **any one** full question from **each** module, each question carries **20** marks.

**Module – I**

- |   |    |
|---|----|
| 11. a) Explain the importance of product development in the modern world. | 8  |
| b) Explain different steps involved in product development.               | 12 |
| 12. a) What is value engineering ? Explain the applicaitons of it.        | 10 |
| b) What are the steps in value engineering ?                              | 10 |

**Module – II**

13. a) Explain different types of process charts. 10  
b) Explain any two types of Wage Incentive Plans. 10
14. a) What are the applications of industrial psychology ? Explain motivation and perception. 12  
b) Explain the role of workers in improving productivity in an industry. 8

**Module – III**

15. a) Derive an expression for Economic Order Quantity. 10  
b) Distinguish between batch production and mass production. 10
16. Write short notes on :
- a) O.C. Curves  
b) Bath Tub Curve  
c) TQM  
d) ISO 9000 series.

**(5×4=20 Marks)****(3×20=60 Marks)**