

NAME.....

ROLLNO.....

**2007 KERALA UNIVERSITY**  
**B.TECH ELECTRICAL AND ELECTRONICS ENGINEERING**  
**INDUSTRIAL ENGINEERING AND MANAGEMENT**

**NOVEMBER 2007**

**TIME:3 HOUR**  
**MARK:100**

ANSWER ALL QUESTIONS

**PART A [10\*4=40]**

1. What is 'leading' functions of management ?
2. What is induction training ?
3. Explain budgetary control.
4. Compare urban and rural sites.
5. Explain any process chart used in time study.
6. What is merit rating ?
- 7 . What is a fixed layout ?
8. Explain any layout planning software.
9. Distinguish between ISO-9000 and ISO 14000.
10. What is an open job shop ?

**PART B [6\*10=60]**

- 1 1. a) Explain the preparation of:
  - a) Profit and loss Account and
  - b) Balance Sheet by taking the example of a company making domestic hardware products.
- b) Explain profit-volume analysis and break-even chart. I P.T.O.932r
12. a) Explain the functions of an Industrial Engineer in a factory. How is it different from the functions of a Mechanical Engineer, Electrical Engineer and Electronics Engineer ?
- b) Describe the systems concept in management.
13. a) Explain the following layouts showing their features and applicability:
  - 1) Process layout
  - 2) Product layout
  - 3) Mixed layout.
- b) Using the graph production Vs Wages, explain any two wage incentive plans (other than pure time rate and pure piece rate).
14. a) Explain how standard time is arrived at, stating with the time study of the process.
- b) Explain how merit rating is done.
15. a) Describe the different functions of production planning and control.

b) Differentiate Job, Batch, Mass and Continuous production showing where these are applicable.

16. a) How is economic lot size determined?

b) Write short notes on:

1) TQM

2) Iso-2000

3) Bench marking.

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