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D – 3431

Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, December 2017
(2008 Scheme)**

08.802 : INDUSTRIAL ENGINEERING (MPU)

Time : 3 Hours

Max. Marks : 100

- Instructions :** 1) Answer **all** questions in Part – A.
2) **Each** question in Part – A carries 4 marks.
3) Answer **any one full** question from **each** Module in Part – B.
4) **Each full** question in Part – B carries 20 marks.

PART – A

1. Briefly explain the significance of Industrial Engineering.
2. What are the objectives of Value Analysis ?
3. Enumerate the functions of Material Handling.
4. Compare preventive maintenance and break down maintenance.
5. List out any six therbligs used in micro motion study.
6. What is meant by standard time for completing a job ?
7. Explain the Halsey Incentive plan.
8. Mention the advantages of collective bargaining.
9. What is the significance of GANTT chart ?
10. Explain the concept of Quality Circles.

PART – B

Module – 1

11. a) Explain :
 - i) Break Even analysis. 6
 - ii) Margin of Safety in Break Even chart. 4
 - iii) Effect of increase or decrease of sales price on BEP. 4
- b) What are the reasons for equipment replacement ? 6

OR

P.T.O.



- 12. a) Define industrial engineering and explain its functions. 10
- b) Explain the factors to be considered for the selection of material handling systems. 10

Module – 2

- 13. Explain the various allowances added with the basic time to set the standard time. 20

OR

- 14. a) Explain a multiple activity chart with an example. 10
- b) Explain job evaluation. What are its objectives ? 10

Module – 3

- 15. a) Explain the functions of production planning and control. 10
- b) Explain the basic inventory model with instantaneous replenishment and obtain the expression for EOQ. 10

OR

- 16. a) Explain a Bath Tub curve. What is its significance ? 10
 - b) Explain :
 - i) Bench Marking. 5
 - ii) Control charts. 5
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