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Code: 13A03801

B.Tech IV Year II Semester (R13) Regular & Supplementary Examinations April 2018

INDUSTRIAL ENGINEERING

(Mechanical Engineering)

Time: 3 hours Max. Marks: 70

PART - A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
 - (a) What are the objectives of industrial engineering?
 - (b) List any five contributions of Elton mayo to human relation management.
 - (c) What are objectives of plant layout?
 - (d) List factors affecting plant location.
 - (e) Define method study.
 - (f) Define time study.
 - (g) Write a note on inventory model.
 - (h) Explain discrete variable.
 - (i) What is TQM?
 - (j) What is control chart for variables?

PART - B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT - I

Explain X and Y theory and Herzberg's motivation Hygiene theory referred under motivation theories in management.

OF

- 3 Discuss about:
 - (a) Maslow's theory of hierarchy of human needs.
 - (b) Incentives as motivators.

UNIT - II

4 What are the different types of plant layout? What are their advantages and disadvantages?

OR

5 Discuss the factors influencing plant locations.

UNIT - III

6 What are objectives, discuss factors considered while selecting job for method study?

OR

7 Explain various steps involved in and discuss time equipments.

UNIT – IV

8 Explain single period probabilistic models.

OR

- 9 (a) What is inventory control system?
 - (b) Explain: (i) Minimum stock. (ii) Ordering stock level. (iii) The hastening stock level. (iv) The maximum stock level.

UNIT - V

10 Explain process out of control and process in control.

OR

11 Explain elements of TQM.

