Code: 13A03801

R13/SS

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)
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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

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

OR

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.

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