Code: 13A03801

R13/SS

B.Tech IV Year II Semester (R13) Advanced Supplementary Examinations July 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 is the contribution of FW Taylor?
   (b)   List the functions of management.
   (c)   Define plant layout.
   (d)   List the various factors considered in design of plant layout.
   (e)   Write a note on work study.
   (f)   What is meant by work sampling?
   (g)   What is EOQ model?
   (h)   Discuss on probabilistic models.
   (i)   What is SQC?
   (j)   Explain acceptance sampling.

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

UNIT – I

2   Explain the characteristics of scientific management. Discuss any two schools of management.
OR
3   Explain different types of private sector organization with respect to their formation.

UNIT – II

4   Discuss the factors influencing plant location.
OR
5   Explain the selection criteria of material handling equipment.

UNIT – III

6   What is work study? Discuss objectives and advantages of work study.
OR
7   What are objectives of time study? Discuss the advantages of time study.

UNIT – IV

8   Derive the relation for EOQ.
OR
9   Discuss the techniques of inventory control.

UNIT – V

10   Explain the following attributes charts:
   (a)   Attribute charts for defective items (P-chart).
   (b)   Attribute chart for number of defects per unit (C-chart)
OR
11   Discuss the methodology of double sampling plan.

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