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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)

**B.Tech III Year I Semester Supplementary Examinations December-2021**  
**INDUSTRIAL ENGINEERING & MANAGEMENT**

(Mechanical Engineering)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

**UNIT-I**

- 1 a State the important characteristics of management. 6M  
b State and describe the Fayols principles of Management. 6M

**OR**

- 2 a Describe the principles of Organization. 6M  
b Define the management and administration. 6M

**UNIT-II**

- 3 a Define material handling system. 6M  
b Define plant layout. What are its objectives? 6M

**OR**

- 4 a Why the material handling system important in industries. 6M  
b What are the factors governing plant layout? 6M

**UNIT-III**

- 5 a Describe SIMO chart with an example. 6M  
b What is therblings? List the table with details. 6M

**OR**

- 6 a What are the various method study symbols? Explain 6M  
b What is the purpose of string diagram and explain it with example? 6M

**UNIT-IV**

- 7 a What are the functions of inventory control? 6M  
b Define safety stock, re-order point and lead time. 6M

**OR**

- 8 a Describe the cost associated with inventory. 6M  
b Derive the formula of EOQ model with uniform demand. 6M

**UNIT-V**

- 9 a What are the objectives and inspection and quality control? 8M  
b Define SQC. 4M

**OR**

- 10 a Detail about and X and R chart. 8M  
b Define TQM. 4M

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