

**Reg. No:**

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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)  
**B.Tech III Year I Semester Regular Examinations November 2018**  
**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 and describe the Taylor's principles of scientific management. 6M  
b Describe the principles of Organization 6M

**OR**

- 2 a Describe the Mayo's Hawthorne experiments. 6M  
b Describe the decentralization and their merits and demerits. 6M

**UNIT-II**

- 3 Explain different types of plant layout? Give a critical appraisal for each of them. 12M

**OR**

- 4 What are the various data analyzing forms in plant layout? Explain them in detail. 12M

**UNIT-III**

- 5 Explain in detail about the various methods or techniques of work measurement 12M

**OR**

- 6 List and explain the 26 principles of motion economy. 12M

**UNIT-IV**

- 7 a Describe the cost associated with the inventories. 6M  
b What are the functions of inventory control? And Explain. 6M

**OR**

- 8 a Describe the EOQ problem with more than one price break. 6M  
b Derive the formula for determining number of production runs and optimum lot size to be manufactured. 6M

**UNIT-V**

- 9 Explain in detail about X and R charts? 12M

**OR**

- 10 Give detailed explanation about TQM? 12M

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