

II B. Tech II Semester Supplementary Examinations, December - 2022
INDUSTRIAL ENGINEERING AND MANAGEMENT
(Mechanical Engineering)

Time: 3 hours**Max. Marks: 70**

Answer any **FIVE** Questions, each Question from each unit
All Questions carry **Equal** Marks

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**UNIT – I**

- 1 a) What is Industrial Engineering? Describe the history and development of Industrial Engineering. [7M]  
b) Compare and contrast Production Management and Industrial Engineering. [7M]

**Or**

- 2 a) Explain F.W. Taylor's Principles of Management. [7M]  
b) Discuss theory X and theory Y. [7M]

**UNIT – II**

- 3 a) What are the principal considerations for location of sugar industry in Andhra Pradesh? [7M]  
b) What are the characteristics of an efficient Plant layout? [7M]

**Or**

- 4 a) Differentiate between Process and Product Layout. [7M]  
b) Describe the quantitative techniques for optimal design of layout. [7M]

**UNIT – III**

- 5 a) Write a note on Batch Production. [7M]  
b) In Method study all the activities are recorded with the help of certain symbols. Draw the symbols and explain what each stands for. [7M]

**Or**

- 6 a) Give the applications of Work Sampling. [7M]  
b) What is Ergonomics? Where is it applied? [7M]

**UNIT – IV**

- 7 a) Explain why control over the quality of product is essential. [7M]  
b) What do you understand by Acceptance sampling? When is it used? Give its advantages and disadvantages. [7M]

**Or**

- 8 a) What is the importance of inspection in an industry? Describe the various kinds of inspections. [7M]  
b) How do you develop a Quality Circle Program? What are its benefits? [7M]

**UNIT – V**

- 9 a) Explain the steps in Selection process. [7M]  
b) Identify the techniques of training under off-the job training methods. [7M]

**Or**

- 10 a) Illustrate the analytical methods of Job Evaluation. [7M]  
b) What is Supply Chain Management? Enumerate and explain the elements of supply chain. [7M]

