Code No: R1622036 **R16** SET - 1

II B. Tech II Semester Regular/ Supplementary Examinations, April/May - 2019
INDUSTRIAL ENGINEERING AND MANAGEMENT
(Com to ME, AE, AME, MIN)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **FOUR** Questions from **Part-B**

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PART –A

1. Write short notes on the following:
   a) Applications of Industrial Engineering (2M)
   b) Preventive maintenance (2M)
   c) Flow process charts (2M)
   d) R-Chart (2M)
   e) Manpower Planning (3M)
   f) Value analysis (3M)

PART -B

2. a) Define Management. What are the functions of management? (7M)
   b) Discuss McGregor's theory X and theory Y. (7M)

3. a) What are the factors to be considered in selecting an Industrial Plant Location? (7M)
   b) Write a note on important features of good plant layout. (7M)

4. a) Make a comparative analysis of the features of different methods of production. (7M)
   b) What is Method study? How do you carry it out? (7M)

5. a) What is Quality control? State its importance. (7M)
   b) How do you develop a Quality circle program? What are its benefits? (7M)

6. a) List and explain the steps in Selection process. (7M)
   b) Explain Analytical methods of Job evaluation. (7M)

7. a) Outline the features of Supply chain management and its potential benefits. (7M)
   b) Distinguish between PERT and CPM. (7M)

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(Com to ME, AE, AME, MIN)

Time: 3 hours Max. Marks: 70

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2. Answer **ALL** the question in **Part-A**
3. Answer any **FOUR** Questions from **Part-B**

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PART –A

1. Write short notes on the following:
   a) Importance of Management (2M)
   b) Breakdown maintenance (2M)
   c) Work sampling (2M)
   d) S chart (2M)
   e) Promotion and Transfer (3M)
   f) Supply chain management (3M)

PART -B

2. a) Define Industrial Engineering. What is the role of an Industrial Engineer in an enterprise? (7M)
   b) Explain F.W. Taylor's scientific management. (7M)

3. a) What are the features, advantages and disadvantages of Line or Product Layout? (7M)
   b) Describe the tools and techniques for optimal design of Plant Layout. (7M)

4. a) Define Work study. What is its relevance in the modern context? (7M)
   b) State the principles of Ergonomics. (7M)

5. a) What is Quality? Mention the various dimensions of product quality. (7M)
   b) What do you understand by Total Quality Management? (7M)

6. a) Identify and explain On-the-job training methods. (7M)
   b) Evaluate any four methods of Merit rating. (7M)

7. a) What are the various functions within an organization which are integrated through an ERP? (7M)
   b) Discuss the concept of Crashing of CPM networks. (7M)

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Code No: R1622036 **R16** SET - 3

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(Com to ME, AE, AME, MIN)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **FOUR** Questions from **Part-B**

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PART –A

1. Write short notes on the following:
   a) Role of an Industrial Engineer (2M)
   b) Techniques for optimal design of layout (2M)
   c) String diagrams (2M)
   d) Six sigma (2M)
   e) Recruitment (3M)
   f) PERT (3M)

PART -B

2. a) Differentiate between Production Management and Industrial Engineering. (7M)
   b) State the importance of Management in day to day business activities. (7M)

3. a) What are the features, advantages and disadvantages of Process Layout? (7M)
   b) Discuss the objectives and importance of Plant maintenance. (7M)

4. a) What do you understand by Work Sampling? (7M)
   b) Discuss the steps involved in Time Study. (7M)

5. a) What is Statistical Quality Control? What are its objectives and benefits? (7M)
   b) Establish the importance of ISO certification. (7M)

6. a) Outline the steps in Performance appraisal. (7M)
   b) Compare and contrast Ranking method and Job classification method of Job evaluation. (7M)

7. a) Give a brief account of the evolution of ERP and its benefits. (7M)
   b) State the applications of Network analysis. (7M)

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Code No: R1622036 **R16** SET - 4

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(Com to ME, AE, AME, MIN)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **FOUR** Questions from **Part-B**

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PART –A

1. Write short notes on the following:
   a) Functions of Management (2M)
   b) Features of good Plant Layout (2M)
   c) Therbligs (2M)
   d) Quality circle (2M)
   e) Grievance (3M)
   f) ERP (3M)

PART -B

2. a) What are the applications of Industrial Engineering? (7M)
   b) List and explain Henry Fayol's Principles of Management. (7M)

3. a) Compare and contrast Product and Process Layout. (7M)
   b) Discuss the different types of Plant maintenance. (7M)

4. a) What do you understand by Predetermined Motion Time System? What are its advantages and disadvantages? (7M)
   b) Distinguish between Time Study and Motion Study. (7M)

5. a) Explain Single sampling and Double sampling. (7M)
   b) What do you understand by Six Sigma? (7M)

6. a) Explain briefly Off-the-job training methods. (7M)
   b) What is Merit Rating? State its objectives? (7M)

7. a) Write a note on Value Engineering. (7M)
   b) Distinguish between Total float, Free float and Independent float. (7M)

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