

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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R16**SET - 2**

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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) 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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R16**SET - 3**

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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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R16**SET - 4****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) 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)

