

II B. Tech II Semester Supplementary Examinations, April - 2021
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. a) Write a note on industrial engineering? (3M)
- b) Define industrial plant? (2M)
- c) Define method study. (2M)
- d) What is quality control? (2M)
- e) Describe merit rating? (2M)
- f) What is supply chain management? (3M)

PART -B

2. a) Define industrial engineering and explain its role in increasing the productivity? (7M)
- b) Explain production management and discuss its salient features. (7M)
3. a) What is plant layout? Explain the various principles of plant layout. (7M)
- b) What is plant location? Discuss the need for plant location. What are the steps involved in selecting a location? (7M)
4. a) List out the advantages and disadvantages of job-shop, continuous production, assembly and batch production. (7M)
- b) State and explain in brief the steps involved in method study procedure. (7M)
5. a) Explain the objectives and functions of quality control. (7M)
- b) What is meant by statistical quality control of processes? And its purpose. (7M)
6. a) Define HRM. Explain its elements and significance to organizational development. (7M)
- b) What are the objectives and activities associated with manpower planning? (7M)
7. a) What is the value engineering? Discuss its elements. (7M)
- b) Discuss the functions and significance of SCM. (7M)

II B. Tech II Semester Regular/Supplementary Examinations, November - 2020
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PART -A

1. a) What is production management?
- b) What is product layout?
- c) What is Ergonomics?
- d) What is S chart?
- e) What is personnel management?
- f) Define CPM?

PART -B

2. a) Explain the functions of management?
- b) Explain Theory X and Theory Y?
3. a) Explain the preventive and breakdown maintenance?
- b) What are the applications of production layout?
4. a) Explain the flow process charts?
- b) Define and explain PMTS?
5. a) What are Control charts and R charts? Its applications with examples?
- b) How to attribute sampling inspection with single and double sampling?
6. a) Explain the types of wage incentive plans?
- b) Explain what Industrial Relations is?
7. a) Explain the importance of project crashing?
- b) Explain the differences between PERT and CPM?

II B. Tech II Semester Supplementary Examinations, November - 2019
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 2. Answer **ALL** the question in **Part-A**
 3. Answer any **FOUR** Questions from **Part-B**

PART -A

1. a) What are the qualities of an industrial engineer? (3M)
- b) Define process layout. (2M)
- c) What is meant by Work measurement? (3M)
- d) Write a short notes on Benchmarking. (2M)
- e) Write a note on Job evaluation. (2M)
- f) Define PERT. (2M)

PART -B

2. a) What are the functions of management? (7M)
- b) List out the applications of industrial Engineering. (7M)
3. a) What is process layout? What are the advantages and disadvantages of process layout? List out the applications of industrial Engineering. (7M)
- b) Identify and describe the different models used to assist layout designer. (7M)
4. a) What is performance rating? Explain various methods of rating. (7M)
- b) Explain the significance of operations management in service and manufacturing organization (7M)
5. a) What is the need for ISO 9000 standards? What are the various certifications under this umbrella of ISO 9000? (7M)
- b) Define total quality management. Explain the evolution of TQM. (7M)
6. a) Differentiate personnel and industrial relations from HRM. (7M)
- b) Define wage incentive plans. What are its objectives and drawbacks? (7M)
7. a) Explain the various objectives of supply chain management. (7M)
- b) With the help of following data , (7M)
 - i. Draw the network
 - ii. Find project duration for the following project and
 - iii. Identify the critical path.

Activity	1-2	1-3	1-4	2-4	2-5	3-4	3-7	4-6	4-7	5-6	5-7
Time(months)	4	6	12	7	11	7	8	8	13	4	4

