

**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)