

II B. Tech II Semester Supplementary Examinations, November - 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**

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.

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| 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 |