

II B. Tech II Semester Regular Examinations, November- 2018
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) Define management. (3M)
- b) What do you mean by Breakdown maintenance? (2M)
- c) Define work study. (2M)
- d) What is quality control? (2M)
- e) Write short notes on Job analysis. (2M)
- f) What is supply chain management? (3M)

**PART -B**

2. a) What are the qualities an industrial engineer? (7M)
- b) Explain the tools and techniques of industrial engineering. (7M)
3. a) Define productivity. What are the various factors affecting? (7M)
- b) What is plant location? Discuss the need for plant location. What are the steps involved in selecting a location? (7M)
4. a) Discuss the various types of production. (7M)
- b) What do you understand by work measurement and elaborate the important techniques involved in work measurement? (7M)
5. a) Define quality and explain the factors that influence the quality of a product. (7M)
- b) The following table gives the number of defects in a casting used for making crank case of diesel engine. (7M)

|                   |    |    |    |    |    |    |    |    |    |    |
|-------------------|----|----|----|----|----|----|----|----|----|----|
| Casting No        | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| Number of defects | 15 | 11 | 25 | 10 | 12 | 20 | 15 | 10 | 17 | 13 |

Construct appropriate control chart with the control limits and comment on the process.

6. a) Define HRM. Explain its elements and significance to organizational development. (7M)  
b) What is personnel management? What are its features and functions? (7M)
7. a) Explain the steps involved in value analysis. (7M)  
b) Discuss the functions and significance of ERP. (7M)

