



## GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

(An Autonomous Institute of Government of Maharashtra)

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Name of Examination : **Summer 2021** - (Preview)

Course Code & Course Name : **ME452U - Industrial Engineering And Management**

Generated At : **19-05-2022 23:28:11**

Maximum Marks : **60**

Duration : **3 Hrs**

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**Answer Key Submission Type:** Marking scheme with model answers and solutions of numerical

### Instructions:

1. All questions are compulsory.
2. Illustrate your answer with suitable figures/sketches wherever necessary.
3. Assume suitable additional data; if required.
4. Use of logarithmic table, drawing instruments and non programmable calculators is allowed.
5. Figures to the right indicate full marks.

### 1) Solve any five sub questions

- a) Define management science. [3]
- b) What is productivity. [3]
- c) What is process layout. [3]
- d) Name the factors affecting product design. [3]
- e) What is string diagram. [3]
- f) Define forecasting. [3]

### 2) Solve any three sub questions

- a) What are the different kinds of productivity measures. Explain. [5]
- b) Explain the objectives and principles of good plant layout. [5]
- c) What is ergonomics. Explain the objectives and applications of ergonomics in industry. [5]
- d) What are the techniques used for absorbing fluctuations in demand. Explain. [5]

### 3) Solve any three sub questions

- a) Explain the basic procedure of method study in detail. [5]
- b) What are the different allowances considered in work measurement techniques. Explain. [5]
- c) Explain the factors influencing process planning. [5]
- d) Explain the basic concept and objectives of material requirement planning. [5]

### 4) Solve any three sub questions

- a) Write short note on simultaneous motion chart. [5]
- b) Explain the difference between production planning and production control. [5]
- c) What are the different tools and techniques used for plant layout. Explain [5]
- d) Explain the time study procedure in detail. [5]

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