

**B.Tech. - VIEP - MECHANICAL ENGINEERING
(BTMEVI)**

Term-End Examination

June, 2019

BIME-020 : INDUSTRIAL ENGINEERING

Time : 3 hours

Maximum Marks : 70

Note : (i) Answer any five questions.

(ii) All questions carry equal marks.

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1. (a) What is Industrial Engineering ? Outline the scope of Industrial Engineering. 7
 - (b) Define the term of Productivity. How is it different from Production ? Give suitable examples. 7
 2. (a) Discuss ergonomic factors considered for designing a office chair. 7
 - (b) Describe the basic procedure for making a time-study using a stop watch. 7
 3. (a) Explain the principles of motion economy as applied to the use of tools and equipments. 7
 - (b) What do you understand by product life cycle ? Discuss its phases with the help of a suitable example. 7

4. (a) List the types of control charts for variables and explain any one of them with the help of a suitable example. 7
(b) Explain the procedure for Sequential Sampling Plan. 7
5. (a) List down objectives of Inspection. Explain how it helps in Quality Management? 7
(b) List various methods of rating. Discuss the importance of performance rating in time-study. 7
6. (a) Explain any two types of charts used in Method Study. 7
(b) Describe in brief the predetermined motion time study. 7
7. Write short notes on the following : $4 \times 3\frac{1}{2} = 14$
(a) Value Engineering
(b) Quality Control
(c) Design for Manufacturing
(d) Product Standardization
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