

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

Term-End Examination

June, 2013

BIME-020 : INDUSTRIAL ENGINEERING

Time : 3 hours

Maximum Marks : 70

Note: *Attempt any five questions. All questions carry equal marks.*

1. (a) Explain the procedure for method study. 7+7
(b) Explain the basic procedure for time study using a stop-watch.
2. (a) Explain the principles of motion economy 7+7 as applied to the use of tools.
(b) Explain the procedure for conducting a work sampling study.
3. (a) Draw out a design of computer room, their 7+7 requirements.
(b) Define Ergonomics. Explain how ergonomics helps in improving productivity.
4. (a) List the types of control charts for variables 7+7 and explain any one of them with suitable example.

- (b) Explain the procedure for sequential sampling plan.
5. (a) Explain the stages involved in a product life cycle. 7+7
(b) What do you mean by Value Engineering ?
What are the advantages of Value Engineering ?
6. (a) Explain any two types of charts used in method study. 7+7
(b) Write short notes on predetermined motion time study.
7. Write short notes on : 3.5x4=14
(a) Single sampling plan
(b) FAST Diagram
(c) Statistical Quality Control
(d) Product standardization
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