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BIME-020

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

00291 Term-End Examination June, 2015

BIME-020: INDUSTRIAL ENGINEERING

Time: 3 hours		hours Maximum Mar	Maximum Marks : 70	
Note: Attempt any five questions. All questions carry equal marks. Assume missing data if any.				
1.	(a)	What is Industrial Engineering? Outling the scope of Industrial Engineering.	ne 7	
:	(b)	Define the term productivity. How is different from production? Give suitab examples.		
2.	(a)	Explain the requirements of a good production.	ct <i>7</i>	
	(b)	What is work-study? Discuss the different techniques of motion-study.	nt 7	
3.	(a)	Describe the procedure for method-study.	7	
	(b)	Describe the basic procedure for time-studusing a stop watch.	y 7	
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4.	(a)	Discuss the importance of ergonomics with respect to the various areas of application.	7
	(b)	Explain the ergonomic principles to be followed for the design of displays and control.	7
5.	(a)	Describe the step-by-step procedure of work measurement.	7
•	(b)	List the various methods of rating. Discuss the importance of performance rating in time-study.	7
6.	(a)	List the various types of quality control charts and explain any one of them with the help of suitable example.	7
	(b)	Describe the procedure of single sampling plan and double sampling plan.	7
7.	Wri	ite short notes on the following: $4 \times 3\frac{1}{2}$	=14
	(a)	Value engineering	
	(b)	Allowances	•
	(c)	Principles of motion economy	
	(d)	Design for manufacturing	