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BIME-020

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P.T.O.

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

Term-End Examination December, 2018

BIME-020: INDUSTRIAL ENGINEERING

11	me : 3	hours Maximum Marks:	Maximum Marks : 70		
Note: Attempt any five questions. All questions equal marks.			carry		
1.	(a)	What are the application areas of Industrial Engineering? Discuss the role of industrial engineering in modern factories.	7		
	(b)	Explain partial productivity and total productivity. What measures would you suggest to improve the productivity of a firm?	7		
2.	(a)	What do you understand by therbligs? Draw the symbols for any six therbligs and write their applications.	7		
	(b)	What is meant by inspection? Discuss the objectives of inspection.	7		

3.	(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
4.	(a)	Explain the product development process.	
		Discuss the benefits of concurrent	
		engineering.	7
	(b)	Define work measurement. What are the	
		different techniques of work measurement?	
		Explain them.	7
5.	(a)	What is string diagram? Explain its	
		application with the help of a suitable	~
		example.	7
	(b)	Explain the principles of motion economy	_
		as applied to the use of tools.	7
6.	(a)	List the various types of equality control	
		charts. 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

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- 7. Write short notes on any two of the following: 7+7=14
 - (a) Value Engineering
 - (b) Design for Manufacturing
 - (c) Product Standardisation
 - (d) Selective Inventory Management