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**BME-030** 

## B.Tech. MECHANICAL ENGINEERING (COMPUTER INTEGRATED MANUFACTURING)

## **Term-End Examination**

00232

December, 2017

## **BME-030: SAFETY ENGINEERING**

Time: 3 h	nours Maximum Mar	·ks : 70
Note: Attempt any five questions.		
1. (a)	What is Occupational Safety? Describe reasons for risks to the safety and health	n of
(b)	workers in the workplace.  What do you mean by Incident Rates Write a formula for I.R. calculation.	?
<b>2.</b> (a)	Define the term Hazard. How is a haz analyzed?	ard <i>10</i>
(b)	What is an Accident?	4
<b>3.</b> (a)	What is meant by EMS? Why is an E necessary for an industry?	MS 10
(b)	Describe The Factories Act, 1948.	4
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4.	(a)	What is Acid Rain? Which pollutants cause acid rains?	
	(b)	What are Waterborne Diseases? Explain the causes.	
5.	(a)	Describe different types of wastes. What are the different sources of wastes?  10	
	(b)	What is an incinerator?	
6.	(a)	Distinguish between pyrolysis and starved air incineration.	
	(b)	What are Landfill Outputs? Describe how they are managed.	
7.	-	Write short notes on any <b>four</b> of the following: $4 \times 3 \frac{1}{2} = 14$	
	(a)	ERT	
	(b)	Disaster	
	<b>(c)</b>	Ganga Action Plan	
	(d)	Fire Triangle	
	(e)	Chemical and Heat Burns	
	(f)	CWTF	