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

☐☐☐☐☐ Term-End Examination June, 2016

	BME-030 : SAFETY ENGINEERING					
Tin	ne : 3 i	hours Maximum Marks:	Maximum Marks: 70			
No	Note: Answer any seven questions. All questions carry equal marks.					
1.	(a)	Describe an ideal safety organisation for a large-scale industry.	5			
	(b)	Explain various work-related operations that attract safety precautions.	5			
2.	(a)	What is occupational safety? Describe the various causes of risks to the safety and health of a worker in the work-place.	5			
	(b)	What are the diseases commonly suffered by industrial workers? Explain.	5			

BME-030

3.	(a)	Describe the various types of accidents and types of injuries for the purposes of	
		compensation.	5
	(b)	Discuss Heinrich theory of accident causation.	5
4.	(a)	What are the effects of polluted water on health and environment?	5
	(b)	What are the functions of safety audit? What are the guidelines to plan safety audit in an industry?	5
5.	(a)	Describe the provisions of the Factories Act, 1948.	5
	(b)	Describe briefly how The Compensation Act, 1923 helps workers who suffer in industrial environment.	5
6.	(a)	What is ozone hole? What suggestions were made by UNO to avoid ozone layer depletion?	5
	(b)	What are the different convention declarations made by UNO in respect of environment pollution?	5
7.	(a)	How can waste be managed safely?	5
	(b)	What is aerobic microbial composting? Distinguish it from vermiculture.	5

8.	(a)	Distinguish between municipal solid waste and industrial waste.	5
	(b)	List the methods of disposal of hazardous wastes.	5
9.	(a)	Discuss the factors that may affect the recycling programme.	5
	(b)	What is critical incident technique?	5
10.	(a)	What is a disaster? Distinguish between man-made and natural disasters.	5
	(b)	Write a note on Bhopal Gas Disaster, explaining the failures on the part of the	
		company.	5