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BME-030

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**BME-030** 

## BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING (COMPUTER INTEGRATED MANUFACTURING)

## Term-End Examination June, 2010

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

Time: 3 hours		ours Maximum Marks	Maximum Marks: 70	
Note: Attempt any seven questions. All questions carry equal marks.				
1.	(a)	Explain the importance of safety in an organisation. List down the various benefits of the safety awareness programmes.	5	
	(b)		5	
2.	(a)	What is an accident? What are the common causes of accidents?	5	
	(b)	Discuss Heinrich theory of accidents.	5	
3.	(a)	List human factors which may cause accidents.	5	
	(b)	How are accidents prevented? Explain with suitable examples.	5	

1

Describe any three principles on which gas 4. (a) 5 detection in industrial environment is made. What are safety audit functions? What are 5 guidelines to plan an audit of safety in an industry? What is meant by ISO-14000? What are 5 5. the documents included in ISO-14000 for an industry? Describe the safety provisions in Factory Act, 1948. How is site for landfill selected? Describe 6. 5 how landfills are they managed? (b) Describe different types of industrial waste. 5 7. Define industrial and hazardous wastes. 5 What general principles are followed for industrial waste disposal? How hazardous waste is managed? 5 8. List different hazards that exist in 5 workplace. Explain any one of them. What is lightening? What damages does 5 lightening cause and can these hazards be

avoided?

- 9. (a) What is Emergency Response Team (ERT)?5 Explain concept of ERT networking and role of ERT in controlling emergency.
  - (b) What is a disaster? Distinguish between man-made and natural disaster.
- **10.** (a) What is safety training? Discuss the role of trainer and attributes of safety trainer.
  - (b) What is Job hazard analysis and how is it used for safety training?