

00425

**BACHELOR OF TECHNOLOGY IN  
MECHANICAL ENGINEERING  
(COMPUTER INTEGRATED  
MANUFACTURING)  
Term-End Examination**

**June, 2012**

**BME-030 : SAFETY ENGINEERING**

*Time : 3 hours*

*Maximum Marks : 70*

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*Note : Attempt **any seven** questions.*

*All questions carry **equal** marks.*

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1. (a) "Safety is not only the objective of safety engineering, health of workers should also be included in the objectives". Justify the statement. 5
- (b) Discuss the health problems arising out of industrialisation and the measures for the health protection of workers. 5
2. (a) What is an accident ? What are the common causes of industrial accidents ? 5
- (b) Describe various components that make cost of an accident. 5
3. (a) What is safety record keeping ? Explain its significance in industrial safety. 5
- (b) What do you understand by environmental pollution ? Give the list of pollutants of air. 5

4. Discuss ISO 14000 for an industry. Also explain legislation and its acts. 10
5. (a) Describe pollutants of air and discuss green house effect. 5  
(b) Describe pollutants of water and how they enter water. 5
6. (a) Discuss types of wastes and methods of waste generation. 5  
(b) Discuss industrial wastes. Also explain different methods of waste treatment. 5
7. (a) How is solid waste disposed off ? What is the solid waste scenario in Indian cities ? 5  
(b) Write a note on industrial waste disposal. 5
8. (a) What safety measures should be observed during welding work in industries ? 5  
(b) Explain recycling technology. 5
9. (a) How is recycling process judged ? Discuss factors that may affect recycling technology. 5  
(b) How fire occurs ? Give reasons. 5
10. (a) What are the methods adopted in extinguishing fire ? 5  
(b) Write a note on safety programming and training methods. 5
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