

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

Term-End Examination

December, 2011

BME-030 : SAFETY ENGINEERING

Time : 3 hours

Maximum Marks : 70

Note : Attempt any seven questions.

All questions carry equal marks.

-
-
1. (a) What is safety in an industrial organisation ? What are the objectives of safety in industry ? 5
 - (b) Discuss occupational safety acts. 5
 2. (a) What are the main reasons for industrial accidents ? 5
 - (b) Give the list of preventive measures to avoid accidents in the industries. 5
 3. (a) What is the significance of "safety record keeping" ? Explain how this is done in industries ? 5
 - (b) Write a note on environmental pollution and list pollutants of air. 5

4. What is the significance of ISO 14000 for an industry ? Discuss legislation and its acts. 10
5. (a) What are the effects of environmental pollution on human health ? 5
 (b) Discuss checking and testing of environmental pollution. 5
6. (a) What are the different types of wastes ? What are its sources ? Explain with examples. 5
 (b) Discuss waste treatment methods and different types of industrial wastes. 5
7. (a) What is Municipal Solid Waste ? Describe different types of Municipal Solid Waste. 5
 (b) What are the methods of industrial waste disposal ? Explain. 5
8. (a) How safety precautions should be taken during welding work in industries ? 5
 (b) Explain recycling technology. 5
9. (a) Discuss the factors that affect recycling technology. 5
 (b) Why does fire occur ? Describe methods to extinguish the same. 5
10. (a) Describe how robots cause hazards to workers ? Explain with suitable examples. 5
 (b) Describe various precautions to be taken by workers while lifting loads. 5

