

Industrial Safety & Environment
(ME-402, Dec-07)

Note: Section A is compulsory. Attempt any four questions from Section B and any two from Section C.

Section-A

1. a) What is meant by industrial safety?
- b) What is the difference between industrial accident and industrial hazard?
- c) What is the role of employees in plant safety?
- d) What is the difference between physical and mental fatigue?
- e) What are the requirements of providing ventilation in a plant?
- f) What is meant by local relief?
- g) What are the benefits of good illumination?
- h) Differentiate between continuous and impulse noise.
- i) What do you understand from ISO 14000 standards?
- j) What are the adverse effects of noise on man?

Section-B

2. What are the important types of industrial accidents? What are their causes?
3. Describe various safety measures applicable to a manufacturing organization.
4. Explain the impact of environment design on accuracy and efficiency of a man.
5. Describe the principles of good illumination.
6. Explain important techniques of noise measurement.

Section-C

7. (a) What is the role of ergonomics in systems design? Explain.
 (b) Discuss the relationship of safety with economics and productivity.
8. How heat load in an industrial building is controlled? Explain in detail.
9. (a) What are the various types of artificial lightings? Explain.
 (b) Write a short note on silences vibrations.