

Industrial Safety and Environment
(ME-402, MAY 2007)

Time: 3 Hrs
Max Marks: 60

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

Section-A

1. a) How do you feel safety as important at work?
b) What is meant by a safety policy?
c) What do you understand by environment?
d) What is the need of environment control?
e) What are various indices of heat stress?
f) What are the purposes of lighting in an industry?
g) What is meant by noise pollution?
h) Differentiate between physical and mental fatigue.
i) What are the importances of environmental standards?
j) Differentiate between natural and artificial lighting.

Section-B

2. Describe hazards identification techniques applicable to a manufacturing organization.
3. Describe the procedure for planning of safety in the industry.
4. Explain the methods of measurement and mitigation of physical and mental fatigue.
5. Explain the techniques to control heat exposures at source and exhaust.
6. Describe various noise absorption techniques.

Section-C

7. a) What are the various types of industrial accidents? Explain their causes.
b) Describe the procedure of planning for safety.
8. Explain the effect of temperature, humidity, illumination, noise and vibrations on human body and mind.
9. a) Write a short note on ISO14000.
b) Describe various types of ventilations in an industry for heat control.