Roll No. | | | | | | | | | | | | | Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(ME) (Sem.–7,8)

INDUSTRIAL SAFETY AND ENVIRONMENT

Subject Code : ME-402

Paper ID : [A0838]

Time : 3 Hrs. Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

l. Write briefly :

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) How types of accident can be categorized according to the causes of events in the industry?

g) What are the benefits of good illumination?

h) How sound insulation can be taken care of during building construction?

i) What is the benefit of ISO standards for the customers/consumers of any product?

j) What is the role of vibration as an environmental factor on human body?

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SECTION-B

2. Write the principles of good illumination and discuss the various color codes used and their purpose in any industry.

3. What is the selection criterion for proper ventilation in an industry? Which is better natural lighting or artificial lighting justify your answer?

4. Write a short note on need and objectives of 'Safety standards' in an industry.

5. How the accidents are investigated and analyze in an industry?

6. What is the effect of silencer vibration? How can it be measured and controlled?

SECTION-C

7. What is the need of environment control in an industry? How heat and noise effect the health of workers? What essential steps need to be undertaken for safeguarding the health of workers?

8. Describe the measurement and mitigation of physical and mental fatigue as related to industrial environment.

9. How vibration can be measured and controlled in industry? Write about the noise absorption techniques.

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