

Roll No.							Total No. of Pages: 0	2

Total No. of Questions: 09

B.Tech.(Automation & Robotics) (2011 batch) (Sem.-7,8) INDUSTRIAL SAFETY AND ENVIRONMENT

Subject Code: ME-402 Paper ID: [A2921]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- 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

1. Write briefly:

- a) What is meant by industrial safety?
- b) What is audiometer?
- c) Write about the hazards identification techniques.
- d) How the industrial hazards of catastrophic nature can be taken care of in any organization?
- e) What is the safe dress for the machinist?
- f) Differentiate between 'Natural ventilation ' and 'Mechanical ventilation' as related to industry safety.
- g) What are the adverse effects of noise on human body?
- h) What is meant by local relief?
- i) Differentiate between physical fatigue and mental fatigue.
- j) Enlist the factors that affect the thermal comfort of human body.



SECTION-B

- 2. What is the principle of good illumination and discuss various colour codes used with their purpose in an industry?
- 3. How vibration can be measured and controlled in an industry?
- 4. Explain the impact of environmental design on accuracy and efficiency of a person.
- 5. Discuss various types of industrial accidents. What are their causes?
- 6. Write a note on the common heat stress indices used in an industry. How heat exposure can be controlled in an industry?

SECTION -C

- 7. Discuss the need of environmental control in an industry. How do '*Noise*' and '*Heat*' affect the efficiency and accuracy of the work environment?
- 8. Discuss how accidents are reported, investigated and analysed in an industry. How does it help in prevention of future accidents in that industry?
- 9. a) Discuss various Environmental standards for representative industries.
 - b) What do you mean by dilution ventilation?