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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (Automation & Robotics) (Sem.-7)
INDUSTRIAL SAFETY AND ENVIRONMENT

Subject Code : ME-402

M.Code : 71809

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**Write briefly:**

1. What do you mean by 'Safety Legislation'?
2. Define Thermal Comfort.
3. Why is safety at work prominent?
4. Define the term Ergonomics.
5. List various costs associated with an accident.
6. How is safety and productivity related at a work place?
7. What do you understand by local relief?
8. How is ISO 14000 strengthened from safety perspective?
9. List various industrial wastes and their treatment.
10. Define the units of Intensity of Illumination.



**SECTION-B**

11. What is occupational disease? How is the worker protected against these ills in various work environments?
12. Describe principles of motion economy and their importance towards safety at work.
13. Explain the impact of environment design on accuracy and efficiency of a man.
14. Describe hazards identification techniques applicable to a manufacturing organization.
15. Describe the principles of good illumination.

SECTION-C

16. a) Define Noise. Differentiate between continuous and impulse noise. Explain various noise evaluation procedures.
b) Explain ISO 14000 standard. What are key elements of ISO 14001? What are the benefits of environment management system?
17. Discuss the effect of temperature, illumination, humidity and vibration in an industry on the human mind and body.
18. How heat load in an industrial building is controlled? Explain in detail.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

